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FROM THE EDITOR

Now's the time when we should be making plans for our Winter wardrobes — in fact, we probably should have made a start last month, but somehow I can never think about Winter clothes when it's still the height of Summer. It's the middle of July as I write this and, although the temperatures are in the 80's, it's become impossible to buy any Summer clothes which haven't been reduced for clearance — usually because they're dirty, torn or completely hideous! And the same will happen this Winter. If you haven't kitted yourself out with your Winter wardrobe by the end of August, it'll be very difficult to find just what you need. I suppose this is the beauty of making your own clothes, although I think if the truth be known, most of us knit for the sheer enjoyment of it rather than the practical aspects.

Nevertheless, for all my lack of planning when it comes to my own personal wardrobe, I've managed to organise a nice selection of Autumn and Winter knitwear for you to knit for yours. We've also got some lovely Winter fabrics in our Swatch Spot this month which you can use to create some beautiful Winter designs of your own. They use an extremely interesting slip stitch technique which, when combined with cleverly placed colours, create a quite startling and unusual effect.

Another item we've included which will help you to design your own individual knitwear, is our 'Decorative Hems' feature. Using the methods and techniques explained in this feature, you can create a whole range of exciting and interesting designs of your own without having to work out your own pattern — you can use any existing plain pattern and simply 'decorate' it with hems. Turn to page 10 and you'll see what I mean.

So, you see, there's plenty for you to be getting on with, so why not be organised and make a start on your Winter wardrobe.

Till next month . . .

Laraine

Editor Laraine McCarthy.
Patterns Debbie Clarkson.
Fashion Sarah Pooley.
Knitting Sam Lamb.
Knitting from Nature Jo Newton.
The Swatch Spot Sarah Pooley.
Making the most of your Knitmaster Ribber Carol Didymus for Knitmaster.
Star Signs Debbie Townsend for Knitmaster.
Inspirational Intarsias Rosalie Davis.
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Sampler No. 1 contains excerpts from: Start Knitting with Kamalini, Holding Position & Partial Knitting, Garter Bar & Waste Knitting and Knit Steam & Cut.
Sampler No. 2 contains excerpts from: Each of the three vols in the Brother Ribber Series and Knit Steam & Cut.

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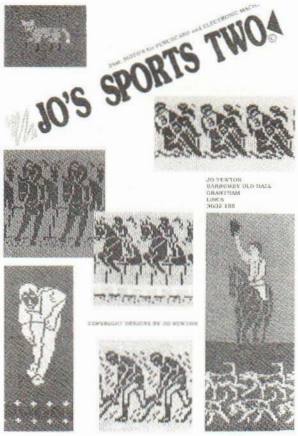
KNITLINE

Sports Motifs

Following on from the successful 'Jo's Sports' collection of 24 stitch punchcard sports motifs, Jo Newton has now published 'Jo's Sports Two'. Jo's Sports Two includes 24 stitch punchcard designs for foxhunting, Hockey, Bowls, Steeplechasing, Windsurfing, Tennis and Motorcycling. Each of these clever designs is shown in full colour on the back and front cover, while the punchcard charts, suggestions and explanations are presented clearly inside. Jo's Sport Two is available for £2.95 plus 25p p&p direct from:

Jo Newton,
Barrowby Old Hall,
Grantham,
Lincs NG32 1BX.



Chester

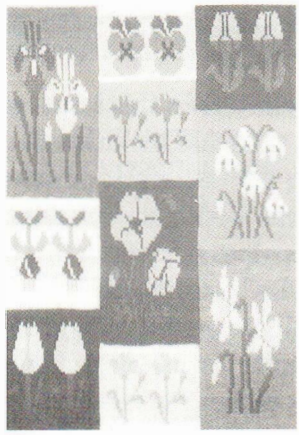
Evening classes being offered in Chester this September are as follows:

Machine Knitting Techniques for Beginners and Improvers, at Kingsway Adult Centre. Mondays, 7-9pm. Enrol 10th September, 7-9pm.

Machine Knitting Techniques for Beginners and Improvers at New Scene Youth Centre, Kingsway. Thursday afternoons. Enrol 13th September at Bluecoat Centre.

Creative Machine Knitting at West Cheshire College, The Arts Centre, Blacon Avenue. Thursday 7-9pm. Enrol first week of September.

For further details, phone 0244-880695.



New Stitch Patterns

Two new stitch pattern collections are now available from Millbrooke Designs. Both booklets are called 'The Spring Collection' and one version is for 24 stitch punchcard machines while the other for 40 stitch Psaff/Passap Duomatic machines. Each of the pretty flower designs is illustrated in colour on the front cover while inside are the punchcard charts, colour suggestions, garment suggestions and some useful hints and tips.

The Spring Collection (please specify 24 stitch or 40 stitch) is available for £3.65 post free from

Millbrooke Designs,
Millbrooke Cottage,
Main Road,
Covenham,
Louth,
Lincs LN11 0PB.

Edinburgh

Jewel and Esk Valley College has several machine knitting courses which cater for all levels of knitting ability.

The proposed courses include three SCOTVEC modules designed for the beginner, each module requiring attendance of half a day per week for thirteen weeks.

The NWRAC Home Machine Knitting Course requires attendance of one full day per week for two years for Part 1 and a further year for Part 2. This includes Pattern Drafting, Design and Practical Knitting and caters for beginners as well as advanced knitters.

A Cut and Sew Design Course which is for experienced machine knitters. This course is for one full day for ten weeks.

Courses for physically and mentally handicapped students are held at the Milton Road Centre and are free to registered disabled people.

For further information contact Mrs. Hazel Hunter or Mrs. Mavis Branton at Jewel and Esk Valley College, Eskbank Centre, Newbattle Road, Dalkeith EH22 3AE. Tel. 031 663 1951 Ex 229.

Lambeth

Lambeth Adult Education will be offering Machine Knitting classes during the day and evening from September.

Evening class is held at: Stockwell Park School, Stockwell Park Road, London SW9 0AL. Tel. 071-274-8300.

Day class held at: Jubilee Centre, Coberg Crescent, London SW2.

If you would like more information please contact, The Strand Centre, Elm Park, London SW2 2EH. Tel. 081-671-6274 (Branch). 081-671-1300 (H.Q. only).

Somerset

A variety of Adult Education classes in machine knitting will be available in Somerset this September. Contact the following tutors for further information.

Valerie Firth — 0458-72151 teaches at Strode College, Street, from beginners to advanced and a ribber course.

Jean Hill — will be teaching beginners at Westfield School, Yeovil. This course leads on to an intermediate class.

Ethel Hillier — 0460-62531 teaches in Chard area according to the needs of local knitters.

Valerie Meecham — 0460-54670 will be teaching machine knitting techniques at Swanmead School, Ilminster, Maiden Beech School, Crewkerne, Stanchester School, Stoke-sub-Hamdon, Yeovil College (following on from Jean Hills courses) Dillington College, Ilminster, and a Swiss knitting course, also day courses at Speke Hall, Dowlish Wake.

Barbara Milner — 0935-873028 will be at C.R.E.S.T.A. Chard From September, teaching beginners and at Wincanton from January '91. Barbara runs a course at Yeovil Community Arts Centre.

Eileen O'Grady — 0749-344243 will be teaching beginners at Frome College and at Whitstone School, Shepton Mallet.

Gwen Tromans — 0823-336815 of Jay-Gee, Taunton, will be running a beginners course at Somerset College of Arts and Technology with Jan Grant. Gwen also runs courses from Jay-Gee.

Carol Vellacott — 0823-270252 teaches machine knitting techniques at Wellington and Monkton Heathfield.

New Pattern Booklet

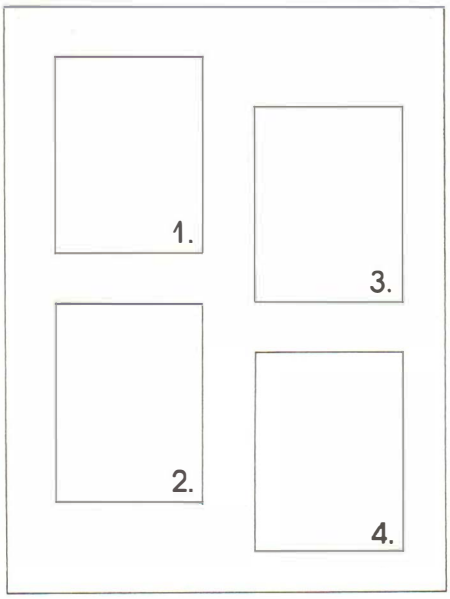
A new collection of men's and woman's designs knitted in Tamm yarns is now available — 'Tamm Designer Collection 1'. This pattern booklet contains full colour photographs of all 17 garment designs, which include suits, cardigans, sweaters and tops. Most of the patterns are suitable for standard gauge machines of any type while others are for standard gauge punchcard or electronic machines. The electronic charts have been printed full size, which is always useful.

Tamm Designer Collection 1 is available direct from the designer for £2.75 plus 40p p&p. Write to:

Rosalie Davis
Wayside,
Fawkham Rd,
West Kingsdown,
Kent TN15 6JP.

THE SWATCH SPOT

Having been inspired by the two ruched sweaters in this issue, which have both been 'ruched' by hand, we thought we'd take this technique a step further to see if we could create a similar fabric using the automatic punchcard system. We succeeded using slip stitch — a stitch pattern which is very much underused and certainly underestimated. We've used stripes of strong, bright colours to emphasise the way these slip stitch fabrics 'distort'. However, you can knit them in one colour throughout for a straightforward ruched effect or perhaps substitute our strong colours for fashionable warm, spice shades or the lovely soft, pastel shades of ice cream.



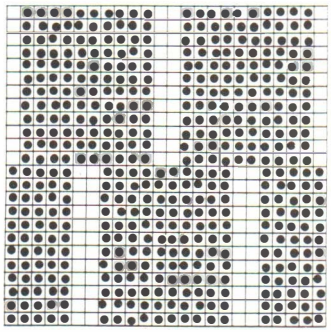
SWATCH 1.

(For Standard Gauge Punchcard Machines)

Push 30 Ns at left and right of centre O to WP. 60 Ns altog. Using waste yarn, cast on and knit several rows. Using col 2, knit 20 rows stockinet and turn up a hem. Insert special card 1 and lock on row 1. Take carr across twice without knitting. Release card. Set carr for slip stitch.

Col 1 in feeder 1 only, knit 12 rows. Col 2 in feeder 1 only, knit 12 rows. Rept from *to* for required length. Cast off. Pin out and steam lightly.

Special Card 1



SWATCH 2.

(For Standard Gauge Punchcard Machines)

Push 30 Ns at left and right of centre O to WP. 60 Ns altog. Using waste yarn, cast on and knit several rows. Using col 2, knit 20 rows stockinet and turn up a hem. Insert special card 2 and lock on row 1. Take carr across twice without knitting. Release card. Set carr for slip stitch.

Col 1 in feeder 1 only, knit 2 rows. *Col 3 in feeder 1 only, knit 2 rows. Col 2 in feeder 1 only, knit 4 rows. Col 3 in feeder 1 only, knit 2 rows. Col 1 in feeder 1 only, knit 4 rows*. Rept from *to* for required length. Pin out and steam lightly. Cast off.

SWATCH 3.

(For Standard Gauge Punchcard Machines)

Push 30 Ns at left and right of centre O to WP. 60 Ns altog. Using waste yarn, cast on and knit several rows. Using col 2, knit 20 rows stockinet and turn up a hem. Insert special card 3 and lock on row 1. Take carr across twice without knitting. Release card. Set carr for slip stitch.

Col 1 in feeder 1 only, knit 4 rows. *Col 3 in feeder 1 only, knit 4 rows. Col 2 in feeder 1 only, knit 8 rows. Col 3 in feeder 1 only, knit 4 rows. Col 1 in feeder 1 only, knit 8 rows*. Rept from *to* for required length. Cast off. Pin out and steam lightly.

SWATCH 4.

(For Standard Gauge Punchcard Machines)

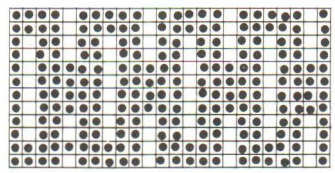
Push 30 Ns at left and right of centre O to WP. 60 Ns altog. Using waste yarn, cast on and knit several rows. Using col 3, knit 20 rows stockinet and turn up a hem. Insert special card 4 and lock on row 1. Take carr across twice without knitting. Release card. Set carr for slip stitch.

Col 1 in feeder 1 only, knit 6 rows. *Col 2 in feeder 1 only, knit 6 rows. Col 3 in feeder 1 only, knit 12 rows. Col 2 in feeder 1 only, knit 6 rows. Col 1 in feeder 1 only, knit 12 rows*. Rept from *to* for required length. Cast off. Pin out and steam carefully.

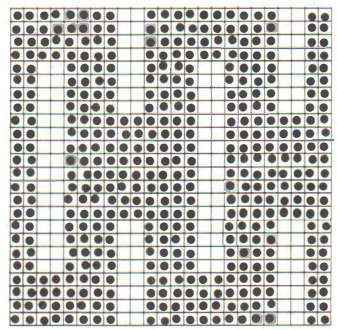
YARNS:

Knitmaster Kone 4ply
Col 1 — Bluebell
Col 2 — Serpentine
Col 3 — Bright Pink

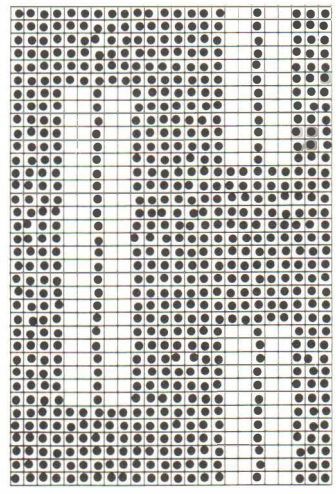
Special Card 2

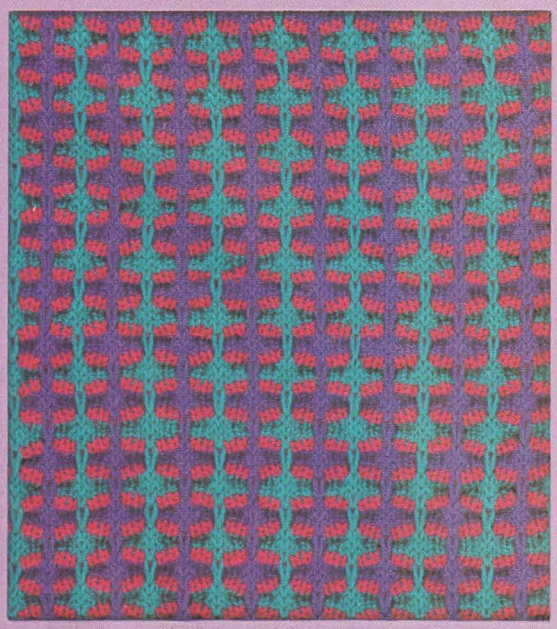


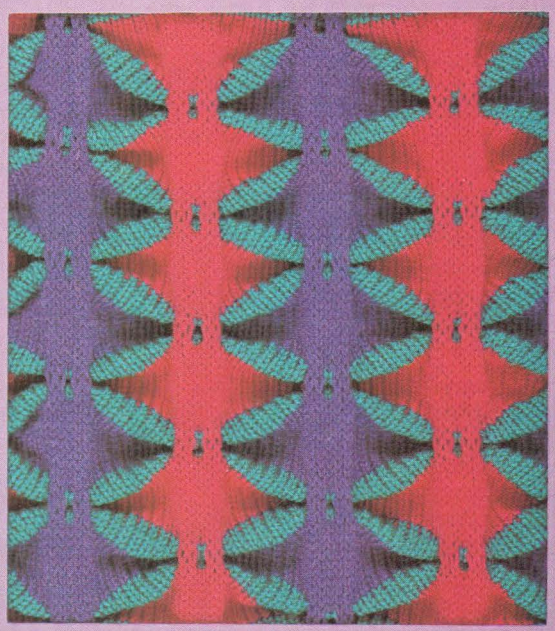
Special Card 3



Special Card 4







STAR SIGNS

(Part 9)

Each month this year we're including a sign of the Zodiac for you to knit – one for each Star Sign. This month we've created a beautiful border design for Virgo. Knit it in two colours, or multicoloured with additional Swiss darning – or perhaps use it as a single motif if you prefer. Next month our Star Sign will be for Libra.

SWATCH 1

For Standard Gauge Punchcard & Electronic Machines.

Yarns Used:
Knitmaster Kone 4ply
Col 1 (Aran)
Col 2 (Black)

TO KNIT

Insert card and lock on row 1. Push 37 Ns at left and right of centre O to WP. 74 Ns altog. Using col 1, cast on and knit 30 rows stockinet. Knit 2 rows col 2. Release card. Set carr for Fair Isle.
Col 2 in feeder 1, Col 1 in feeder 2, knit 2 rows.
Col 2 in feeder 1 only, knit 1 row.
Col 2 in feeder 1, Col 1 in feeder 2, knit 47 rows.
Col 2 in feeder 1 only, knit 1 row.
Col 2 in feeder 1, Col 1 in feeder 2, knit 8 rows.
Set carr for stockinet. Knit 3 rows col 2. Knit 30 rows col 1. Cast off. Swiss darn words following chart.

SWATCH 2

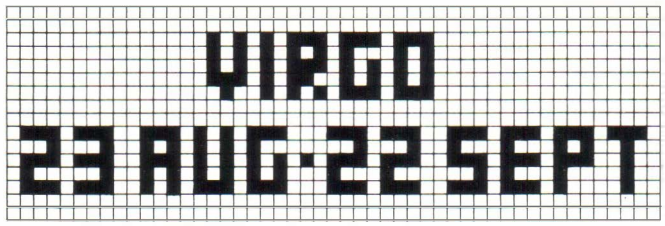
For Standard Gauge Punchcard & Electronic Machines.

Yarns Used:
Knitmaster Aneto 4ply
Col 1 (Clematis)
Col 2 (Plum)
Col 3 (Winter Green)
Col 4 (Rosebud)
Col 5 (Saffron)
Knitmaster Kone 4ply
Col 6 (Aran)

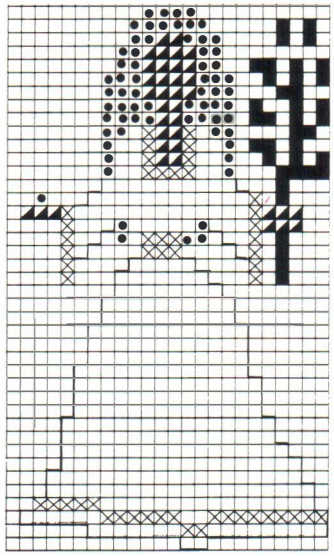
TO KNIT

Insert card and lock on row 1. Push 37 Ns at left and right of centre O to WP. 74 Ns altog. Using col 1, cast on and knit 30 rows stockinet. Release card. Set carr for Fair Isle.
Col 1 in feeder 1, Col 2 in feeder 2, knit 2 rows.
Col 1 in feeder 1 only, knit 1 row.

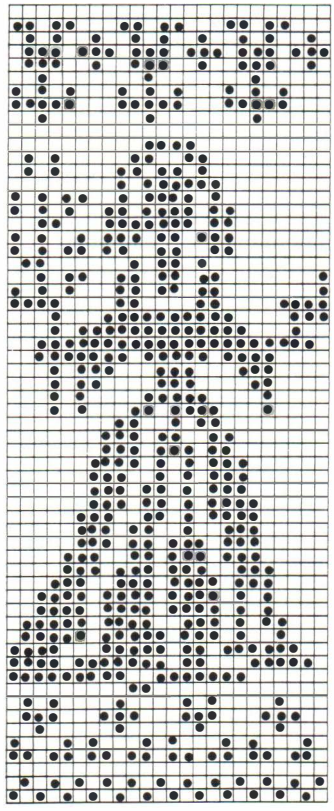
Col 1 in feeder 1, Col 3 in feeder 2, knit 2 rows.
Col 1 in feeder 1, Col 4 in feeder 2, knit 2 rows.
Col 1 in feeder 1, Col 2 in feeder 2, knit 1 row.
Col 1 in feeder 1, Col 6 in feeder 2, knit 42 rows.
Col 1 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 3 in feeder 2, knit 4 rows.
Col 1 in feeder 1, Col 2 in feeder 2, knit 3 rows.
Col 1 in feeder 1, Col 4 in feeder 2, knit 1 row.
Set carr for stockinet. Knit 30 rows col 1.
Cast off. Swiss darn following chart.



Swiss Darning Charts

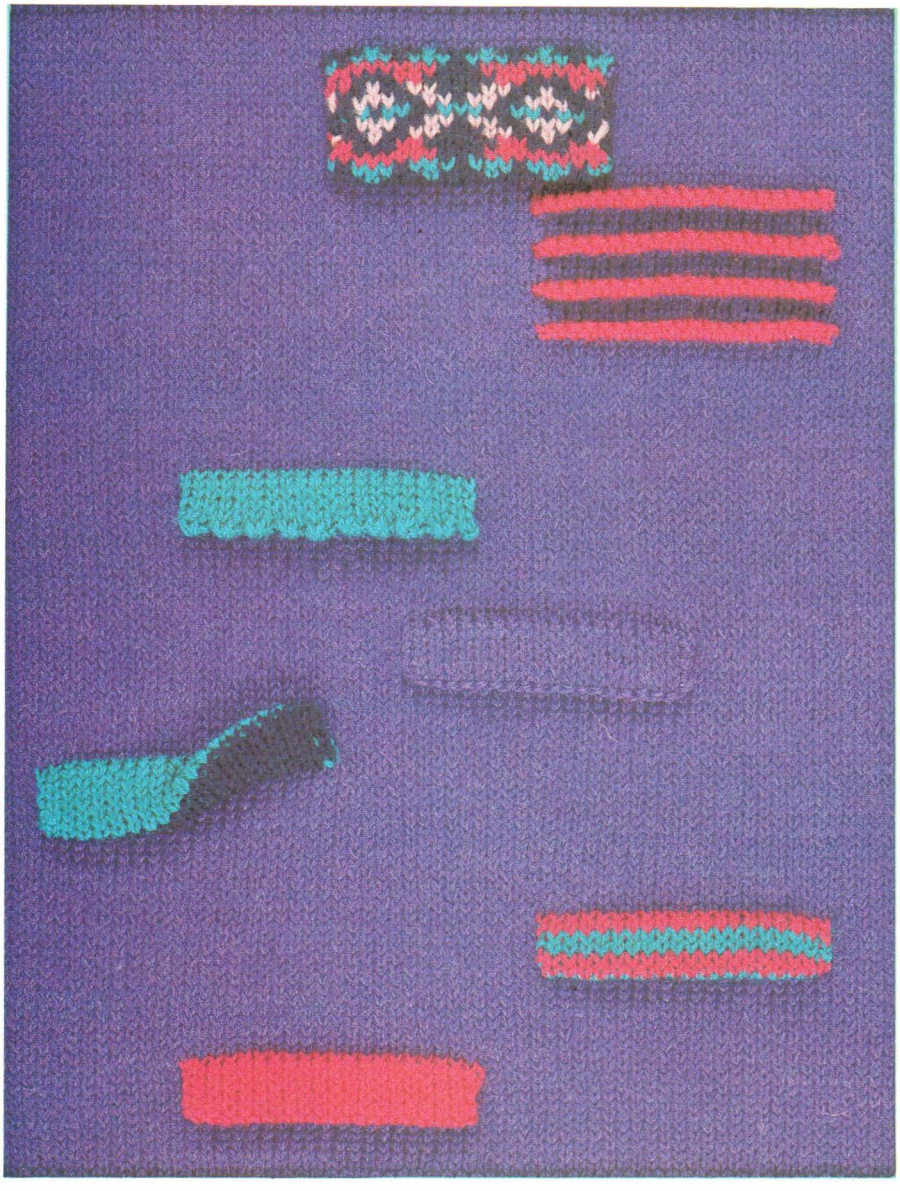


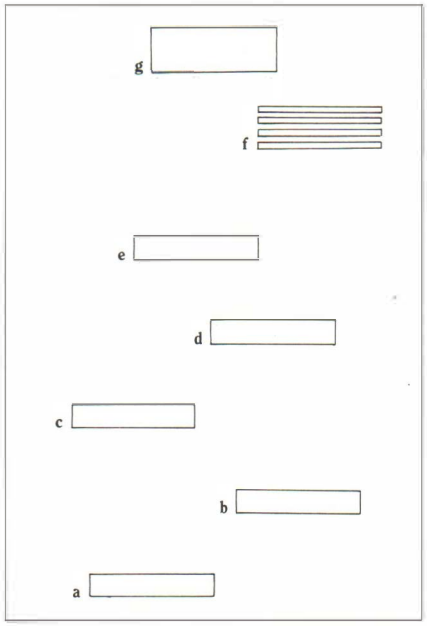
Punchcard Chart



DECORATIVE HEMS

Hems frequently mean just a way of starting or ending a piece of knitting, and most of us wouldn't dream of using them in any other way. But hems can make very attractive patterns in their own right. If you don't believe it, then do read on, and perhaps you'll discover that, in fact, hems can be "ever so interesting!"





a — plain hem in contrast colour
b — striped hem
c — 2-colour hem — with dark underside
d — Hem in same colour with garter stitch fold row
e — picot hem
f — pin tuck hems
g — Fairisle hem

THE BASIC PLAIN HEM

We all learn in our early days of machine knitting how to knit and pick up a plain hem at the bottom of our knitting. However, did you know you can knit and pick up a hem in the middle of your knitting to create an unusual form of surface decoration? We'll start with hems across the full width of the knitting. Later, we'll go on to explain how to knit partial hems like the ones we've used in our illustration.

The technique is easier if you knit your hem in a different colour from the rest of the garment, so let's do that first.

1. When you reach a row in your knitting where you want to introduce a hem, change to the contrast colour of your choice.

2. Knit twice the number of rows you need to give the depth of hem you want. Decorative hems usually work better if they're not too deep, so let's knit 12 rows for the moment.

Diagram A

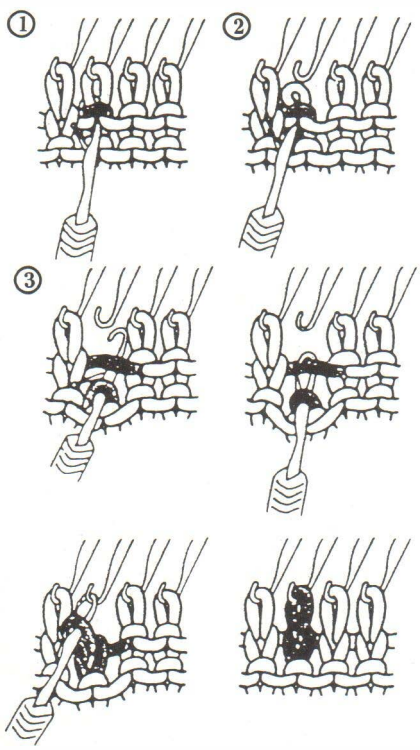
Reforming a stitch to create a purl stitch

① *Put the latch tool into the stitch below the one on the needle.*

② *Drop the stitch by bringing the needle out to holding position then back to working position.*

③ *Catch the bar of the dropped stitch in the hook of the latch tool, pull through the stitch below and replace on the needle.*

Repeat all along the row.



3. Using a Transfer Tool, pick up the stitches from the first row knitted in contrast colour. Make sure you put each stitch onto its corresponding needle or the hem will be twisted. As you become more experienced, you'll find it quicker to use a 3 ended transfer tool to pick up the stitches.

4. You have now completed the hem so, change back to the original yarn and continue to knit.

Tips

Here are a few tips which you might like to use to refine the basic plain hem.

At Step 2, make the total depth of hem an odd number of rows. Then, on the middle row, set the Tension Dial one or two numbers higher (looser). This will create a fold line in the middle of the hem and give a crisper effect.

Example: Knit 6 rows Tension 6
Knit 1 row Tension 7
Knit 6 rows Tension 6
Pick up hem.

Alternatively, on the middle row, reform the stitches using the Latch Tool, to create a row of purl stitches on the fold line.

If you find the hem tends to curl up, try knitting the first half of the hem on a slightly tighter tension. You might also like to try using a looser tension to knit the first row after you've picked up the hem. If you find the 'picked up' row a bit stiff to knit (it has two sets of stitches on it) push the needles out to Holding Position and set the carriage so it will knit the needles in this position.

USES FOR BASIC PLAIN HEMS

Hems placed strategically on your knitting add a third dimension to what would otherwise be a completely plain garment. You can knit them all in one contrast colour, or knit each one in a different colour. They can be striped or perhaps light on the top and dark underneath, to emphasise the 3 dimensional effect. They can also be knitted in a completely different texture of yarn to create an even more interesting effect.

You can, of course, also knit decorative hems in the same colour as the rest of the garment, but this makes picking up the hem more difficult since there's no colour difference to follow.

To create a contrast in the row you must pick up, knit it with a slightly different colour of sewing cotton threaded into the same feeder as the main yarn.

Alternatively, before knitting the rows for the hem, thread a needle with contrasting thread and make a running stitch in and out of the row to be picked up (see Fig 1 and 2). The thread can be removed later.

Diagram B

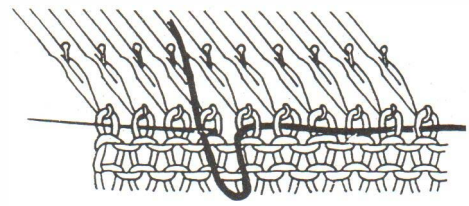


Fig 1

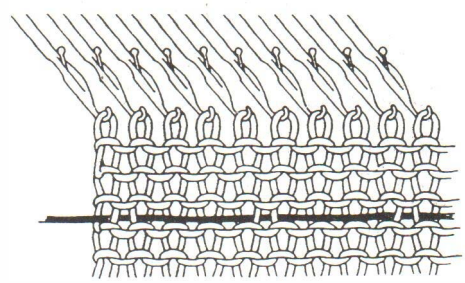


Fig 2

PICOT HEM

A picot hem is knitted in much the same way as a basic plain hem, except the middle row has every alternate stitch transferred to create a fancy fold line.

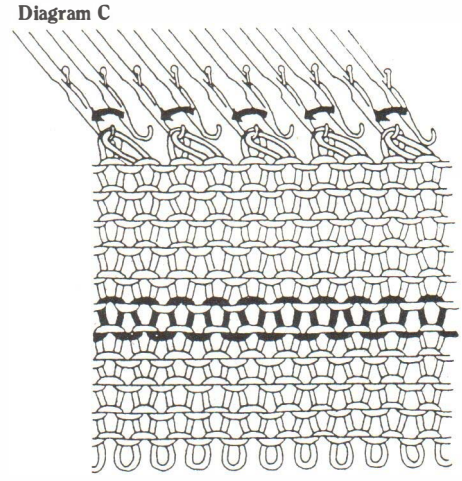
Example: Knit 7 rows.

Transfer every alternate stitch onto its adjacent needle (see Fig. 3) leaving empty needles in working position.

Knit 6 rows.

Pick up hem.

Diagram C



Make picot eyelets by transferring every other stitch onto its adjacent needle. Leave the empty needles in working position.

Tip

If you have a Lace Carriage, you can use it to transfer the stitches for the middle row automatically. Use a punchcard which has every other hole punched out.

VARIATIONS

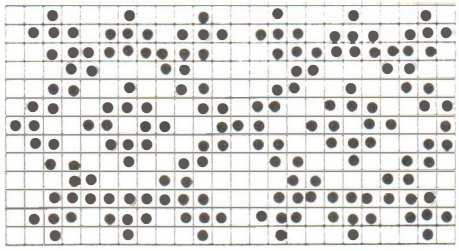
Now that you know and understand how to knit a basic decorative hem in plain stocking stitch and with a picot edge, let's see how we can use this knowledge in other ways.

Suppose we want to make a number of small "hems" to give a horizontal pintuck effect — perhaps in contrasting colours to decorate the yoke of a jumper. Just a few rows, without a foldline, gives the effect of piping which is typical of pintuck fabric. Try knitting 4 or 5 rows for pintuck hems. Pintuck hems also look very attractive if only the centre row of rows are worked in a yarn which contrasts in colour or texture to the rest of the garment.

Hems don't have to be worked in plain stocking stitch! For example, larger hems can be knitted in Fair Isle. To reduce bulk, it's better to work the first half (the part that goes underneath) in stocking stitch, and only the second part that will show, in Fair Isle. Multi-coloured stripes or graduations in shades of the same colour can be effective, as can be lurex or angora with a contrasting texture yarn. Here's an example of a Fair Isle Hem.

Col 1 — Midnight, Col 2 — Serpentine, Col 3 — Bright Pink, Col 4 — Pink.

Insert special card and lock on row 1. Knit 13 rows col 1. Release card. Set carr for Fair Isle. Col 1 in feeder 1 throughout change colours in feeder 2 as follows:
2 rows col 2
2 rows col 3
2 rows col 4
1 row col 2
2 rows col 4
2 rows col 3
2 rows col 2
Pick up hem.



Punchcard Chart

PARTIAL HEMS

Partial hems are hems which are not the full width of the knitting. They can be added at random during knitting, either by using Hold Position, or by working separate pieces of knitting and adding these into your work.

By holding position

To work a partial hem using Holding Position, knit to the point where you want the first hem to be. Bring all needles, EXCEPT those for the partial hem, to Holding Position. Set your machine for partial knitting as recommended in your manual, i.e. by use of the Russel (Holding Cam) Levers or by knitting the stitches to non-working position using the nylon cord. Now knit the partial hem over the needles in working position in the same way as you did for a full width hem. Hang claw weights below the hem stitches to stop the knitting 'lifting' off the needles! Once you've picked up your hem, set the carriage to knit needles in Holding Position or return the needles to Working Position, and continue to knit in the normal way.

Adding hems separately

Before you start to knit your garment, you can knit and make separate hems which can then be hung onto the appropriate needles wherever and whenever you want to introduce a hem to decorate your garment. However, you should note that the purl side of the knitting will be the right side of the garment in this instance, but this can create a very effective contrast. Here's how to knit a separate hem — we'll assume it's a small, plain hem.

1. Cast on and knit several rows in waste yarn.
2. Change to main yarn and knit 12 rows.
3. Pick up the stitches from the first row knitted in main yarn.
4. Knit 1 row.
5. Cast off using waste yarn.
6. Remove the original waste yarn used to cast on. Be careful not to remove the waste yarn you've just used to cast off.
7. You now have open stitches on waste yarn which you can hang onto the needles of your choice while knitting your garment.

If you want to be really experimental, you can hang pieces of crochet or scraps of lace onto needles at random rather than knitted hems.

As you can see, there are quite a few possibilities, so it's well worth experimenting and having a go at decorating one of your favourite stocking stitch patterns with hems. You can use any stocking stitch pattern as long as you remember that the rows for the hems themselves don't count towards the length of the actual knitting. So, either disengage your row counter before working each hem, or take a note of the row so you can wind the row counter back again before you continue to knit.

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KNITTING CLUB NEWS

New Knitting Clubs

Welcome to the following new knitting clubs who have recently registered.

The 'Woolgatherers' of Spaldington, Goole in North Humberside, meet on Monday evenings at 7-00 p.m. For more information telephone Mrs F. Ashton 0430-431162.

For details of the 'Cannock Yarns Knitting Club' of Cannock, Staffordshire, you can write to: Mrs V. Bond, 4 Kingston Arcade, Walsall Road, Cannock, Staffs.

The 'Audley Machine Knitting Club' meet at Audley Adult Centre, Nantwich Road, Audley, Stoke-on-Trent on the 1st Saturday in each month between 2-4.30 p.m. For further information please contact Lynn Prescott on 0270 877034.

Your News

As from September 1990, a series of machine knitting classes will take place in Sutton Coldfield, West Midlands. Monday and Thursday from 7-15 p.m — 8-45 p.m.; Wednesdays from 11.30 a.m. — 1-00 p.m. and Thursdays from 1-30 p.m. — 3.00 p.m. The classes will be suitable for both beginners and students with knitting experience. For more details contact Joan Tilly 021-308-1100.

Teign Machine Knitters Club of Newton Abbot has a busy and active membership and new members would be welcome. For details contact their new Club Leader, Mrs Gloria Miller 0803-873588.

The 'Hooked on Machine Knitting Club' of Saughall, Chester start their new Autumn programme on September 12th with a demonstration of the Golden Rule Pattern System and will cover many other interesting topics during the following meetings. A recent Charity Workshop combined with the Club members to knit 40 Oxfam tops and three blankets. Here's the blanket pattern they used which may well be of use to other clubs:

Oxfam Blanket: 4ply Acrylic, approx T8 (ideal for oddments) Using E wrap, Cast on 70 stitches. Knit 100 rows then change colour. Repeat until RC reads 800. Cast or link off loosely. Join 8 strips together on linker; light steam press.

A series of knitting classes will be taking place in Redbridge and Newham, London this September. For further details of all of the classes contact: Mrs Sophia Jay on 081-534-4644.

The 'Close Knit Two Knitting Club' of Scunthorpe have a busy and exciting programme planned this Autumn. Their meetings are held on the first Wednesday of each month at the Polish Social Club, 265 Frodingham Road, Scunthorpe. Further details can be obtained from any of their members, including Mrs Gladys Dalton on Scunthorpe 859533.

Is your Knitting Club registered?

If your club isn't registered write to, Knitting Club Liaison Officer, Modern Knitting Ltd, PO Box 175, Kingston-upon Thames, Surrey KT2 6HA, enclosing a stamped addressed envelope.

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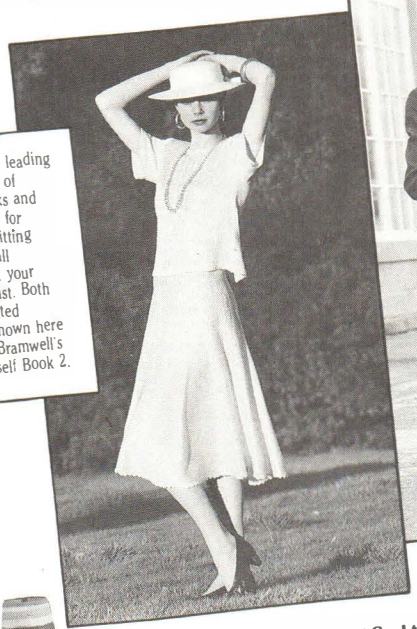

Bramwell are leading UK suppliers of pattern books and coned yarns for machine knitting which are all available at your local stockist. Both the illustrated patterns shown here are from Bramwell's Suit Yourself Book 2.

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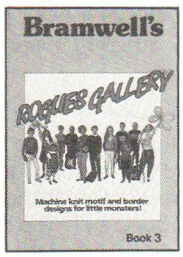

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LETTERS, HINTS & TIPS

If you have an amusing or interesting bit of chit-chat or a helpful hint which you'd like to share with your fellow readers, or perhaps have a question or a problem you think your fellow readers can help with, write to us — we'll send you a £5 reward if your letter is published.

Dear Laraine,

Please can your readers help? My children and I are into rodents, Rats in particular. Before you all faint, they are very clean and loving animals. Anyway, back to my request. I want a punchcard or intarsia chart for a Rat, possibly sitting up. My artistic abilities are nil (I have tried to draw my own without success) so is there anyone out there who can help?

Yours sincerely,

Mrs. L. M. Culley, Stroud, Glos.

Dear Laraine,

I would like to be put in touch with someone who has spare parts for an old 'Record' knitting machine. Can you help?

Filipe Deveril, Chesterfield.

Dear Laraine,

At the moment I am knitting a black cardigan and have decided to make horizontal buttonholes. My eyesight isn't too good, so I experimented with the awkward row where one has to transfer the stitch from needle 2 to needle 1 and then return both stitches to needle 2. The next step is the difficult part for me on black wool — lifting the stitch from first needle over the second stitch to form a new stitch. I have found it easier to put needle 1 of the buttonhole into H.P, take the stitch from needle 2 and slip it in the hook of needle 1. All that needs to be done then is to take needle 1 back into working position to form a new stitch, and then transfer this new stitch to needle 2.

It sounds very complicated but it is much easier.

Yours sincerely,

R. H. Williams, Edinburgh.

Dear Laraine,

Hints for putting things right when they go wrong are always helpful so with this in mind I hope the following is of help.

Tip number 1. Having just finished carefully punching out a card recently it then fell on the floor and got caught under the metal leg of my chair, creasing it. However, I salvaged it by carefully (light, even pressure only) ironing it — the iron on a cool setting and with a piece of paper over the punchcard.

Tip number 2. The other day I had just come to the very last row of a fairly complex Fair Isle when the lot dropped off the machine! Of course, hooking it back on to the machine pulls on the stitches, so I held the knitting carefully, threaded a wool needle with nylon cord and carefully threaded this through each stitch before hooking the work back on to the machine. Fortunately it worked well.

Sue Verrion, Margate, Kent.

Dear Laraine,

Here are two of my punchcard designs which may be of use to Sara Anne Colledge (Letters page, July issue) whose granddaughter was harassing her for a sweater with seals on it. And, in case anyone else would like it, you may publish it in the magazine if you wish.

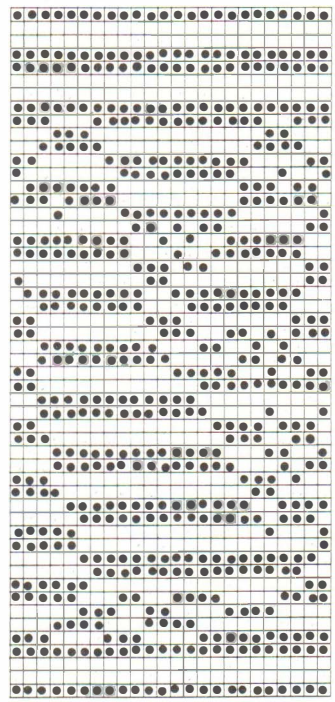
Mrs. Chris Chapman, Millbrooke Designs, Louth, Lincs.

Dear Chris,

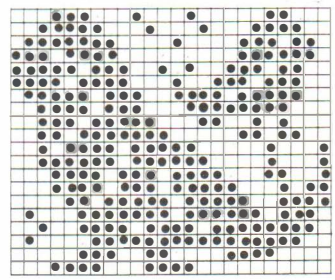
Thank you for your generosity — the design looks lovely and I'm sure lots of our readers will enjoy these two cleverly designed punchcards.

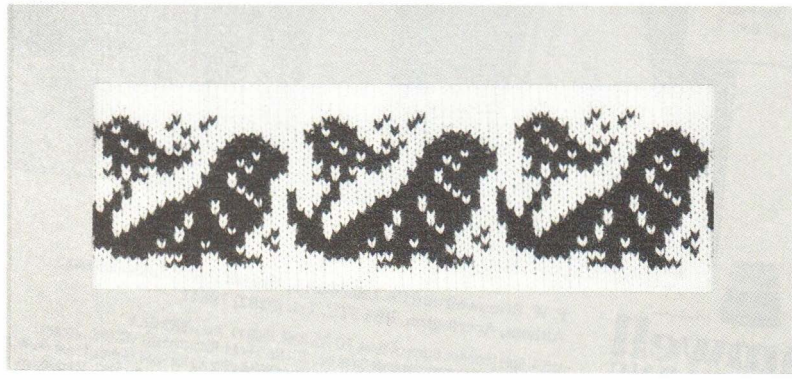
Laraine

Punchcard Chart for Seal — double Jacquard



Punchcard Chart for Seal — single bed





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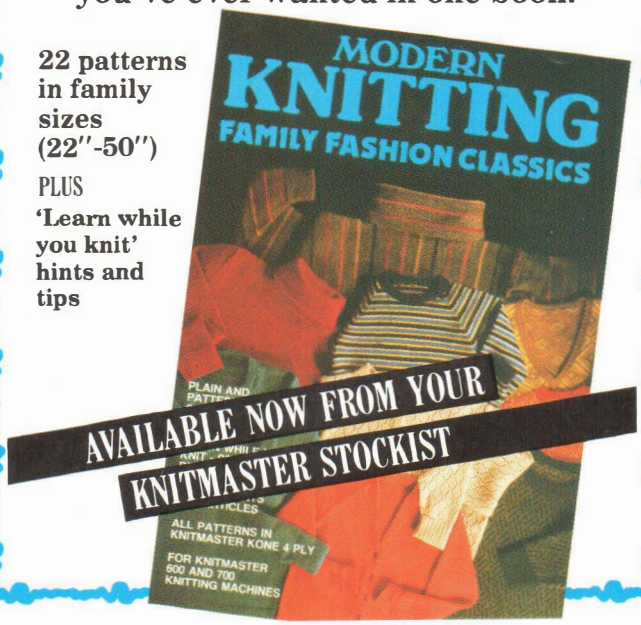
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KNITTING FROM NATURE

(Part 7)

Every month, our Knitting from Nature feature will provide you with some delightful motifs — for both electronic and punchcard machines. Collect our designs every month and build up your exclusive Nature Collection.

AFRICAN ELEPHANTS

This month's Electronic/Intarsia Picture is of an African Elephant and her Calf with complementary 24st designs of a young elephant and calf. The intention has been to portray them realistically in grey, but the smaller 24st pattern would be particularly suitable for toddler and baby wear if knitted in pastel colours.

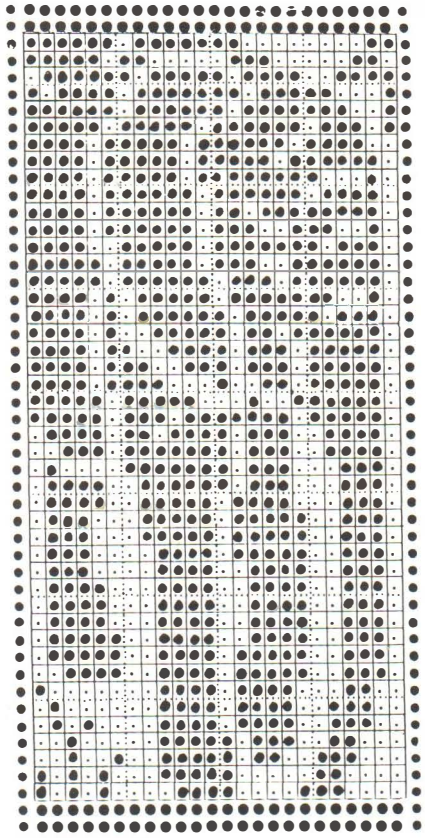
Swiss darn tusk in cream or white where marked on the chart, and eyes in dark brown.

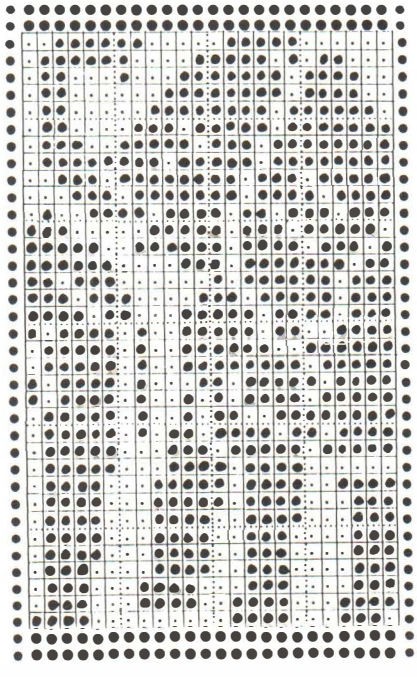
PATTERN NOTE.

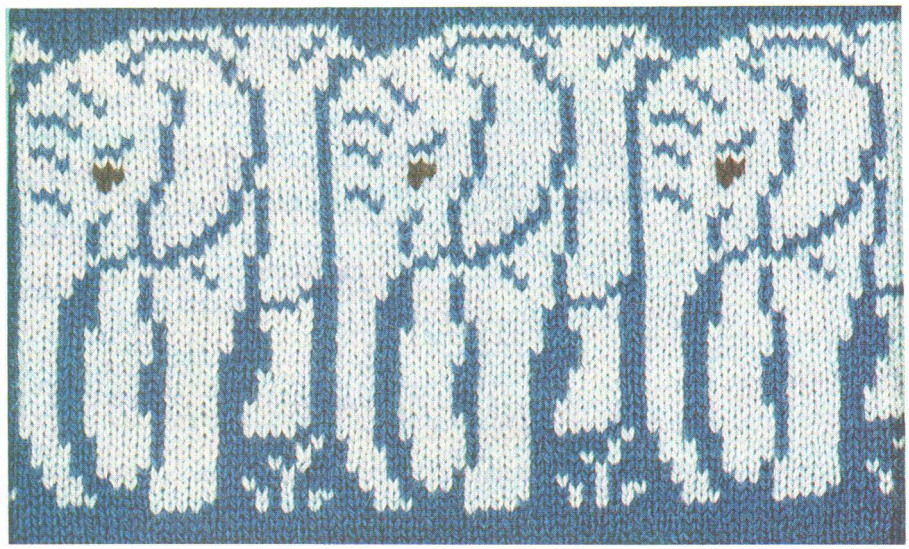
Yarns Used:
Forsell Shamal
572 Lagoon (Blue Green)
526 Hussar (Red)
with
932 Silver Grey
510 Marine (Blue)
503 Seamist

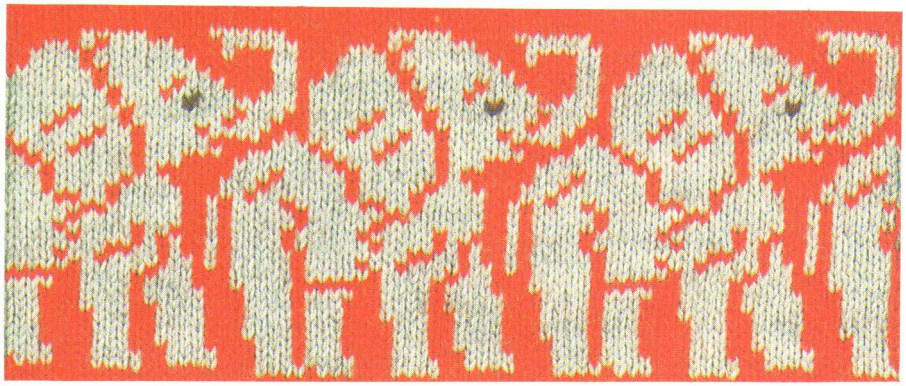
Machines
Elephant with calf
For Electronic machines or machines with intarsia.
Elephant and Elephant Calf
For 24 stitch punchcard machines or Electronic machines.

Note:
When using the punchcard charts to make an electronic design card, fill in a square where the punchcard chart shows a hole.









If you have any problems locating Forsell Shamal, please write to the address below quoting this issue of Modern Machine Knitting:

P. Forsell & Son Ltd.,
Blaby Road,
South Wigston,
Leics.
LE8 2SG

INSPIRATIONAL INTARSIAS

Intarsia knitting is an important feature of modern knitting machines today — whether included as a facility of the main carriage or available as an additional intarsia carriage — and is a really fun way to create unusual and beautifully colourful pictures or geometric designs. Each month we investigate the use of intarsia, providing you with patterns, pictures and above all, inspiration to create your own designs.

THE CRUISE

Our design this month conjures up the elegant, languid days of cruising the world on luxury liners, without the hustle and bustle of today. Angora-Look has been chosen for the yarn because it's softness and slightly fluffy texture are ideal for feminine styles and designs.

In order to achieve the same effect as the original sample, use yarns as detailed below:
KING COLE ANGORA-LOOK 4ply (80% Courtelle, 20% Nylon)
Main colour: Bermuda (shade 60)
Coat and hat: Natural (shade 46)
Coat and hat details: Cerise (shade 4)
Railings and coat markings: Smoke (shade 201)
These four colours are new shades recently introduced into the Angora-Look range.
Hands & face: Peach (shade 59) — very small amount required.

2 oval pearls for earrings and matching sewing thread. The design covers 60 stitches and 128 rows.

MACHINES

Standard gauge machines with intarsia facility.

Note

If placing the design immediately above the rib of your garment, start working from the chart on the first row of stockinet after completing the rib. If placing the design higher up the garment, knit the first rows of stockinet above the rib in gray, to represent the side of the ship. In either case, repeat the railings design across the entire front of the garment. The railings can also be knitted on the back and sleeves if you like.

DECORATION

On our original sample, the grey fold lines on the coat sleeves and shoulders have been Swiss darned, which makes the intarsia design much quicker and easier to knit, with considerably fewer colour changes. The slightly raised effect of the Swiss darned stitches also adds extra definition.

Parts of the design have been outlined with straight stitch in a contrasting shade, to add extra definition and bring the design to life. The railings have been outlined with Cream straight stitches, even where they cross the Cream coat! The coat has been outlined with grey straight stitches, as has the hat, face, hands and the cerise coat collar and cuffs.

Extra details have been added in the form of a large french knot at the base of each cuff, to represent the buttons that may well have been found on a coat of this design. If you'd rather, very small round buttons or beads could be sewn on in place of the french knots and a small flower shaped button could be sewn on to the hat, on the left side, where the ribbons meet. Oval pearl beads have been used for the earrings and straight stitches in Cerise for the lips. This design would begin to look 'messy' if eyes and/or a nose were also added since the face shape is quite small. The mouth is sufficient to give detail to the face.

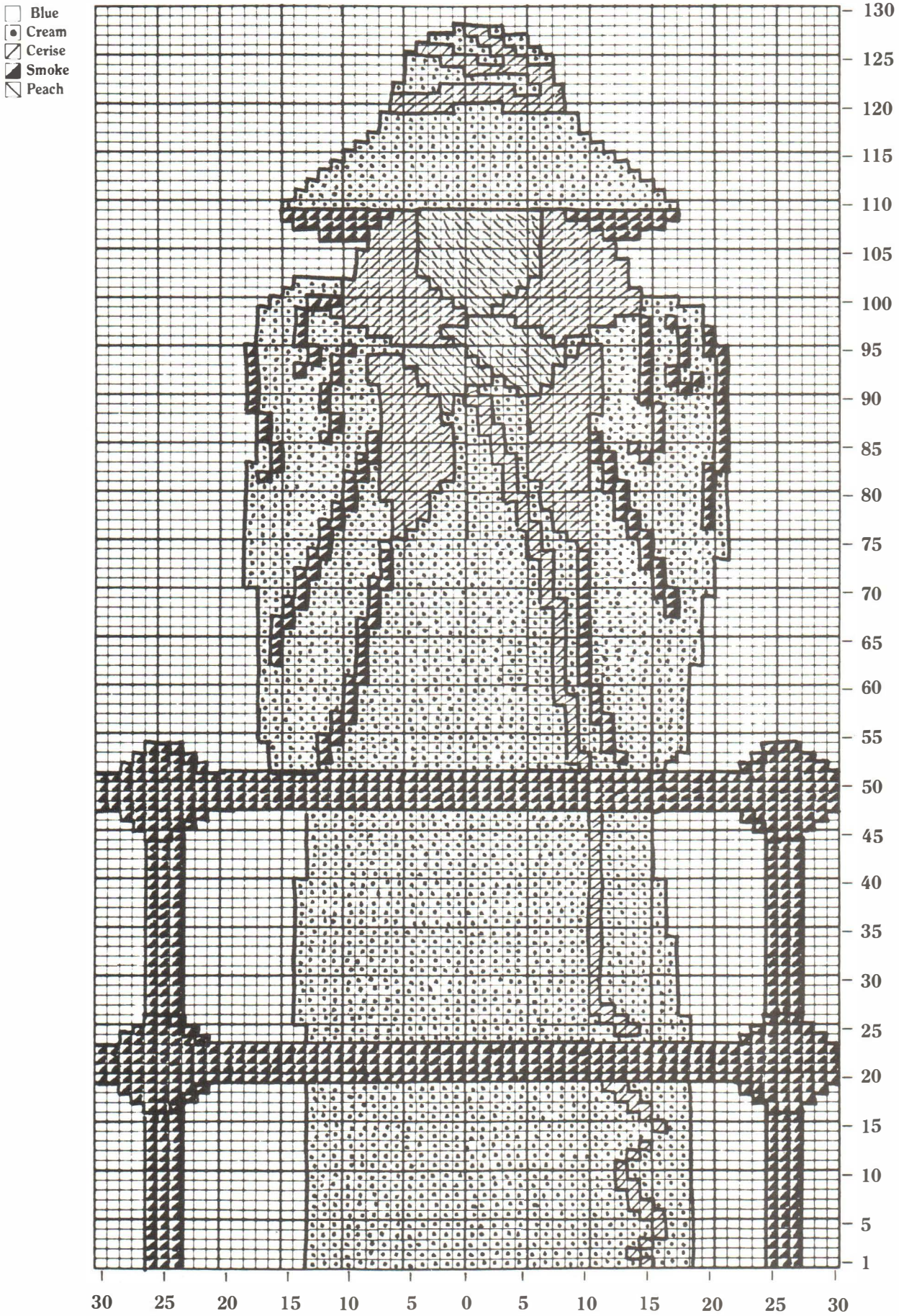
VARIATIONS AND ADAPTATIONS

As we've already mentioned, the railings can be continued around the garment by knitting them on the back too. However, the more ambitious intarsia knitters among you may like to knit the lady on the back of the garment too, but as seen from the back! In which case, knit the outlines of the coat and hat from the chart, but omit the sleeve markings, cuffs, hands and front fold-over in Cerise. Instead of knitting the face, knit the collar and face areas all in Cerise to form the back of the collar. The puff sleeve markings should still be included at the coat shoulders. As far as the railings are concerned, these should only be knitted at the side of the lady, and the white coat would be continued for the full-length. If you were looking at the lady from behind, the railings would then be in front of her (this is one of those points that becomes obvious only after having knitted it incorrectly!!)

Extra interest can be added to this design by incorporating some seagulls — either by knitting them in with the intarsia design or by adding them afterwards using embroidered straight stitches. You could even include both types if you like — the combination of larger knitted gulls and smaller embroidered gulls would give the impression of distance. One area of gulls would probably be sufficient on the front with the lady design, but two or three could be included on the back because there is a greater expanse of blue above the railings. You might also like to add one or two areas of gulls to the sleeves. Embroidery details for the lady's lips and small gulls are given below as well as charts for knitting or Swiss darning large and small gulls. Remember that knitted gulls will be the reverse of the chart while Swiss darned gulls will be the same as shown.

We hope our "Cruise" design will conjure up days of luxury and laziness for you, but in any event, give you pleasure in the making and wearing.

Continued on page 20


Blue
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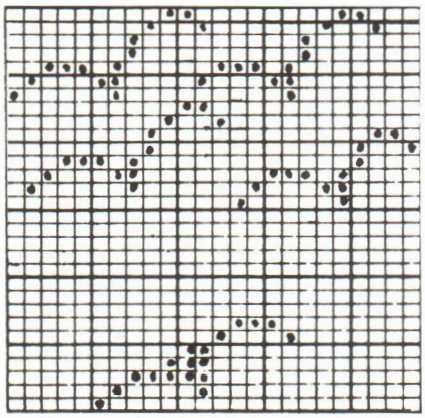
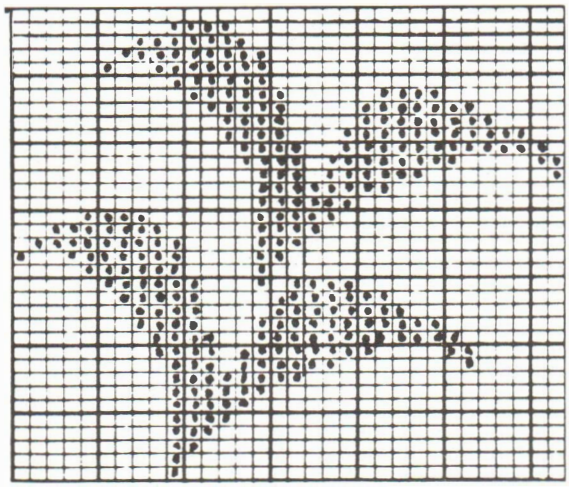
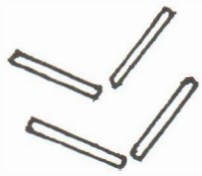


Punchcard, intarsia or Swiss darning chart for small gulls.



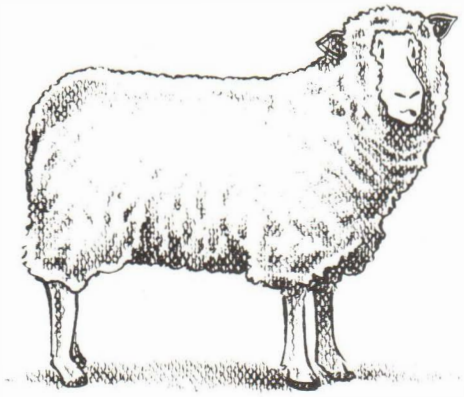
Intarsia or Swiss darned Large Gulls

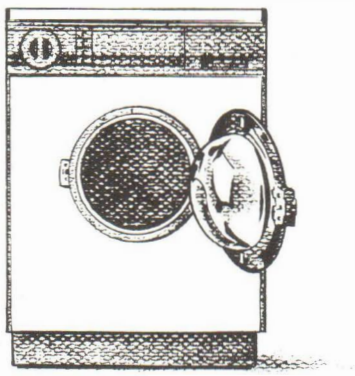
Straight Stitches For Lips



Straight Stitches For Gulls

WOOL YOU CAN PUT IN THE WASH





Generally speaking, the more gentle the wool, the more gentle the wash.

Not any longer.

Now, Forsell have developed a 4-ply machine knitting wool, to complement their 2-ply range. And it's as durable as it is smooth.

A machine washable wool, 4-ply SUPERWASH is also 'tickle free' — eliminating scratching and irritation.

Available in 13 attractive colours, this new range comes on 500g cones which are easily identified by the gold label — a mark of quality.

So, if you're looking for a smooth operator which can take the rough, look no further than Forsell's Superwash.

NEW 4 ply

SUPERWASH PURE NEW WOOL

Forsell

T. Forsell & Son Ltd., Blaby Road, South Wigston, Leicester LE8 2SG.

Pattern 1

LADY'S RAGLAN FAIR ISLE CARDIGAN

We've combined 4 different punchcard designs to create this lovely cardigan. Use them as we have, with different colour combinations or, for a completely different effect, use only two colours throughout.

For Standard Gauge Punchcord & Electronic Machines with Ribbing Attachment.
Knitted on Knitmaster's 700K.

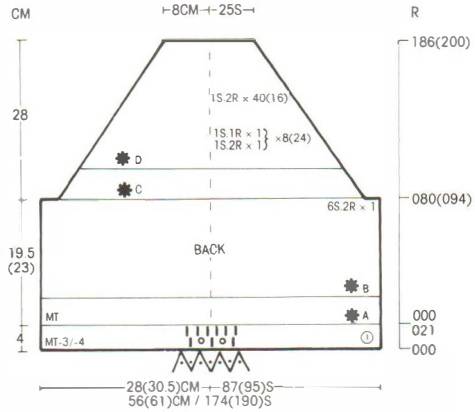
SIZES:
To fit 86-91(96-101) cms/
34-36(38-40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Knitmaster Kone 4ply
Col 1 (Black) — 190(210) grms
Col 2 (Cream) — 280(310) grms
Col 3 (Fashion Flip) — 80(95) grms
Col 4 (Bluebell) — 50(60) grms
Col 5 (Opal) — 15(20) grms
Col 6 (Pink) — 10(15) grms
5 buttons.

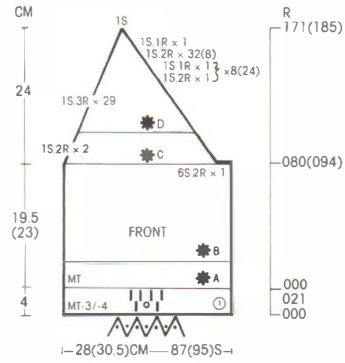
TENSIONS:
Fair Isle Pattern B — 31 sts and 41 rows to 10 cms. TD at approx. 6 (MT)
Fair Isle Pattern D — 31 sts and 38 rows to 10 cms. TD at approx. MT
Double/1 × 1 Rib — 50 rows to 10 cms. TD's at approx. MT-3 on knitter, MT-4 on ribber.
1 × 1 Rib — 48 rows to 10 cms. TD's at approx. MT-6
Double Rib (measured over 14 Ns) — 42 rows to 10 cms. TD's at approx. MT-2

PATTERN NOTE:
Fair Isle Patterns A,B,C & D — see charts.
Insert cord A and lock on row 1.
Col 1 in feeder 1 only, knit 2 rows.
Release cord. Set corr for Fair Isle.
Col 2 in feeder 1, Col 1 in feeder 2, knit 8 rows.
Remove cord. Insert cord B and lock on row 1. Set corr for stockinet.
Col 2 in feeder 1 only, knit 4 rows.
Release cord. Set corr for Fair Isle.
Col 2 in feeder 1, Col 1 in feeder 2, knit 3 rows. Col 2 in feeder 1 only, knit 4 rows. Rept the last 7 rows from *to* 9(11) times in all (for Back and Front), 19 times in all (for sleeves). Col 2 in feeder 1, Col 1 in feeder 2, knit 3 rows. RC 80(94) (for Back and Front), RC 150 (for sleeves).
Remove cord. Insert cord C and lock on row 1. Set corr for stockinet. Col 2 in feeder 1 only, knit 2 rows. Release cord. Set corr for Fair Isle.
Col 2 in feeder 1, Col 3 in feeder 2, knit 17 rows.
Remove cord. Insert cord D and lock on row 1. Set corr for stockinet. Col 3 in feeder 1 only, knit 2 rows. Release cord. Set corr for Fair Isle.
Col 3 in feeder 1, Col 4 in feeder 2, knit 6 rows. Col 5 in feeder 1, Col 6 in feeder 2, knit 1 row. Rept the last 7 rows from *to* to end.

BACK:
Push 87(95) Ns at left and right of centre 0 to WP. 174(190) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for double rib. Using col 1, cast on. Transfer sts on riber for 1 × 1 rib. RC 000. MT-3 on knitter. MT-4 on ribber, knit 21 rows. Transfer sts to knitter. RC 000. MT. Continue in pattern given in pattern note, knit 80(94) rows.
Shope Raglan Armholes
Shape as shown on diagram to Row 186(200). Cast off rem 50 sts.

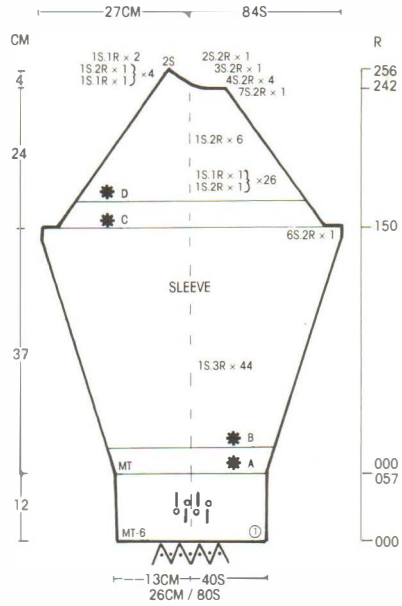


RIGHT FRONT:
Push 87(95) Ns at right of centre 0 to WP. Push corresponding Ns on ribber to WP. Arrange Ns for double rib. Using col 1, cast on. Transfer sts on ribber for 1 × 1 rib. RC 000. MT-3 on knitter. MT-4 on ribber, knit 21 rows. Transfer sts to knitter. RC 000. MT. Continue in pattern given in pattern note, knit 80(94) rows.
Shape Raglan Armhole and Front Edge
Shape as shown on diagram to Row 171(185). Fasten off rem st.



LEFT FRONT:
Knit as for Right Front but in reverse.

RIGHT SLEEVE:
Push 40 Ns at left and right of centre 0 to WP. 80 Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on and knit circular rows in reverse. RC 000. MT-6, knit 57 rows. Transfer sts to knitter. RC 000. MT. Continue in pattern given in pattern note and shape as shown on diagram. 168 sts. Knit to Row 150.
Shape Raglan Top
Shape as shown on diagram to Row 256. Cast off rem 2 sts.



Continued on page 29

Pattern 1

Pattern 2

LADY'S LACEY SWEATER

This lovely, lacey top features a scalloped edging which we covered in some depth last month, including full instructions for the 'chain stitch cast on' which is necessary for this type of edging. If you haven't yet tried knitting one of these lacey, scalloped edges, have a go with a small sample of this one – it's a feature which is becoming very important in fashion knitwear. Cast on with waste yarn and then a 'chain stitch cast on' (see page 13 of the August issue). Then follow chart A on page 30 of this issue. This technique can be used for all gauges of machine simply by following the chart and using a yarn which is suitable for your gauge of machine.

For Standard Gauge Machines and Knitmaster Option 4 Machines. Knitted on Knitmaster's Zippy Plus.

SIZES:
To fit 81-86(91-96) cms/32-34(36-38) inch bust.

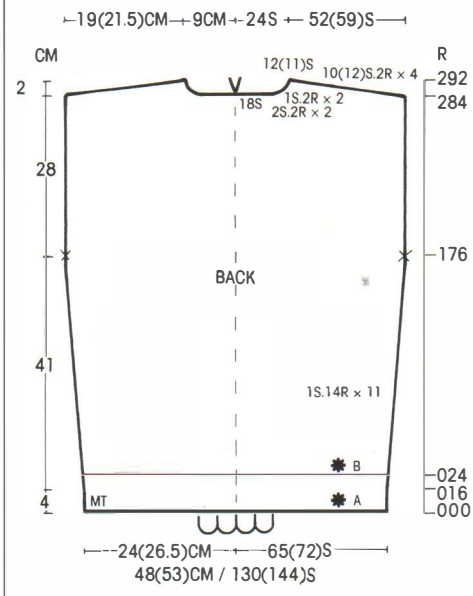
APPROXIMATE YARN TYPES AND AMOUNTS:
Patons Pure Wool 4ply
Col 1 (Cream) — 11(12) x 50 grm balls

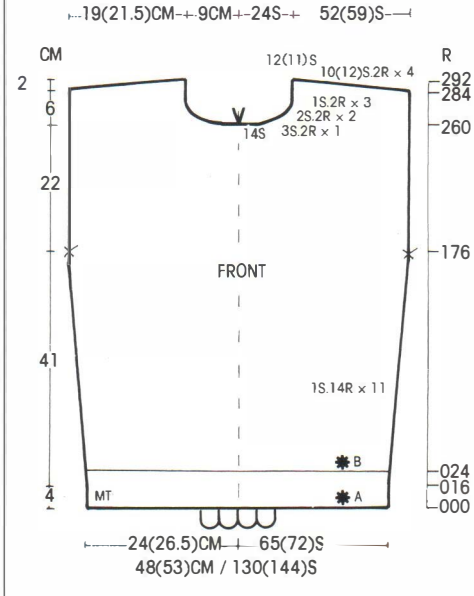
TENSIONS:
Lace Pattern B — 27 sts and 39 rows to 10 cms. TD at approx. 8 (MT) on standard gauge (2 (MT) on Option 4) machines.

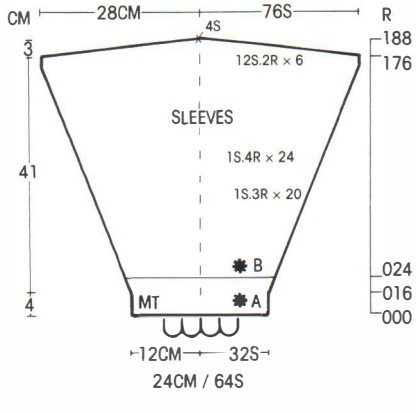
PATTERN NOTE:
Border Pattern A — follow chart A.
Lace Pattern B — follow chart B.
Garter Stitch Pattern C — Knit 2 rows. Drop ev st 1 row down and pick up as for ribbing.
Chain Stitch Cast On — Cast on with waste yarn and knit several rows. Push Ns to HP. Using a latch tool and col 1, make a loop and place loop behind latch. With yarn at left of first N, bring latch tool up between first and second Ns at left and hook yarn over first N, Pull through loop. Rept along Ns (except last N at right). Place loop from latch tool on last N. Push Ns to UWP.

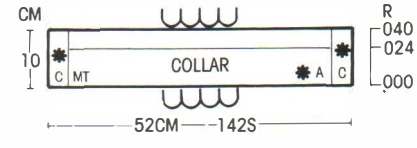
If you have any problems locating Patons Pure Wool 4ply, please write to the address below for local stockist information. Please quote this issue of Modern Machine Knitting.

Patons & Baldwins Ltd,
P.O. Box Darlington,
Co. Durham DL2 2YQ.









BACK:
Push 65(72) Ns at left and right of centre O to WP. 130(144) Ns altog. Cast on using Chain Stitch Method. RC 000. MT. Continue in Pattern A, knit 16 rows. Shape as shown on diagram to Row 24. Continue in Pattern B and shape as shown on diagram. 152(166) sts. Knit to Row 176. Mark both ends with waste yarn. Knit to Row 284.
Shape Back Neck & Shoulder
Shape as shown on diagram to Row 292. Cast off rem 12(11) sts. Knit left part as for right part.

FRONT:
Knit as for Back to Row 260.
Shape Neck
Shape as shown on diagram. Knit to Row 284.
Shape Shoulder
Shape as shown on diagram to Row 292. Cast off rem 12(11) sts. Knit left part as for right part.

SLEEVES:
Push 32 Ns at left and right of centre O to WP. 64 Ns altog. Cast on using Chain Stitch Method. RC 000. MT. Continue in Pattern A, knit 16 rows. Shape as shown on diagram to Row 24. Continue in Pattern B and shape as shown on diagram. 152 sts. Knit to Row 176.
Shape Top
Shape as shown on diagram to Row 188. Mark centre with waste yarn. Cast off rem 8 sts.

COLLAR:
Push 142 Ns to WP. Cast on using Chain Stitch Method. RC 000. MT. Continue in Pattern A to Row 24, AT THE SAME TIME work garter stitch over 6 sts at each edge to end. Continue in stockinet to Row 40. Cast off with waste yarn.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves between marked points. Join side and sleeve seams. Backstitch collar into pos. Give final light steam.

Continued on page 30

Pattern 2

Pattern 3 & 4

RUCHED TOP WITH LONG SLEEVES

These two tops have been knitted using a simple manual technique to create the ruched effect. The fabric is basically stripes of stockinet, but after each stripe, groups of 3 stitches are picked up from the stripe below. Try knitting a small sample following the instructions given in the pattern note below, to familiarise yourself with the technique. Once you see how easy it is to do, you can work on your own variations — knit fewer rows to each stripe, introduce more colours, knit some wide and some narrow stripes, leave bigger or smaller spaces between the picked up stitches — and so on. You might also like to consider using the fabric sideways so the ruched effect is vertical.

For 9mm Chunky Machines with Ribbing Attachment and Knitmaster Option 4 Machines.
Knitted on Knitmaster's Chunky 155.

SIZES:
To fit 81(86)(91) cms/32(34)(36) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Sugar 'N' Spice Jamaica DK
Col 1 (Black/Yellow) — 8(8)(9) × 50 grm balls
Col 2 (Yellow) — 7(7)(8) × 50 grm balls
Black Lycra Elastic.

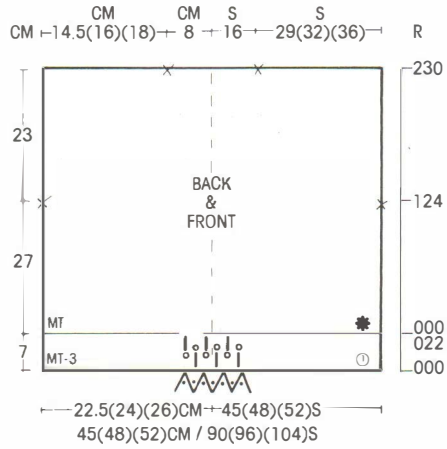
TENSIONS:
Pattern — 20 sts and 46 rows to 10 cms.
TD at approx. 3 (MT) on 9mm (5 (MT) on Option 4 Machines).

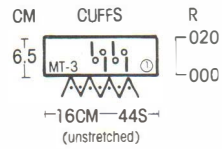
PATTERN NOTE:
Knit 10 rows col 2. *Knit 10 rows col 1. Pick up the following loops from last row knitted in col 2 and place onto corresponding Ns. Ns 1 and 2 at right of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. N 1 at left of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. Knit 10 rows col 2. Pick up blocks of 3 loops from last row knitted in col 1 to fall in centre of previous ruching and place onto corresponding Ns. ie Ns 6, 7 and 8 at left and Ns 7, 8 and 9 at right of centre 0*. Rept from *to* throughout.

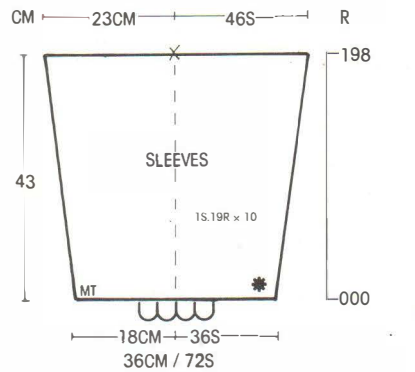
NOTE:
For Machines without ribbing attachment use the latch tool method for making ribs.

If you'd like stockist and mail order information for Sugar and Spice yarns, please write to the address below, quoting this issue of Modern Machine Knitting.

Sugar and Spice,
Flameglobe Textiles Ltd,
Unit 14,
Ashville Trading Estate,
Whetstone,
Leicester LE8 3NY.







BACK AND FRONT ALIKE:
Push 45(48)(52) Ns at left and right of centre 0 to WP. 90(96)(104) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on. RC 000. MT-3, *knit 4 rows col 1 only, knit 2 rows col 1 and elastic*. Rept from *to* twice more. Knit 4 rows col 1 only. RC 022. Transfer sts to knitter. RC 000. MT. Knit 10 rows. Pick up the following loops from last row of rib and place onto corresponding Ns. Ns 1 and 2 at right of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. N 1 at left of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. **Knit 10 rows col 2. Pick up blocks of 3 loops from last row knitted in col 1 to fall in centre of previous ruching and place onto corresponding Ns. i.e. Ns 6, 7 and 8 at left and Ns 7, 8 and 9 at right of centre 0. Knit 10 rows col 1. Pick up blocks of 3 loops from 1st row knitted in col 2 and place onto first group of Ns**. Rept from **to** throughout. Knit to Row 124. Mark both ends with waste yarn. Knit to Row 230. Mark the 16th st at left and right of centre 0 with waste yarn. Cast off loosely.

SLEEVES:
Push 36 Ns at left and right of centre 0 to WP. 72 Ns altog. Using waste yarn, cast on. RC 000. MT. Continue in pattern given in Back and Front and shape as shown on diagram. 92 sts. Knit to Row 198. Mark centre with waste yarn. Cast off.

CUFFS:
Arrange 44 Ns for 1 × 1 rib. Using col 1, cast on. RC 000. MT-3. *Knit 4 rows col 1 only, knit 2 rows col 1 and elastic*. Rept from *to* twice more. Knit 2 rows col 1 only. Transfer sts to knitter. With wrong side of sleeve facing pick up sts from below waste yarn and place onto Ns gathering evenly. Knit 1 row MT. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams to marked points. Set in sleeves between marked points. Join side and sleeve seams. Give final light steam.

Pattern 4

RUCHED TOP WITH SHORT SLEEVES

For 9mm Chunky Machines with Ribbing Attachment and Knitmaster Option 4 Machines.
Knitted on Knitmaster's Chunky 155.

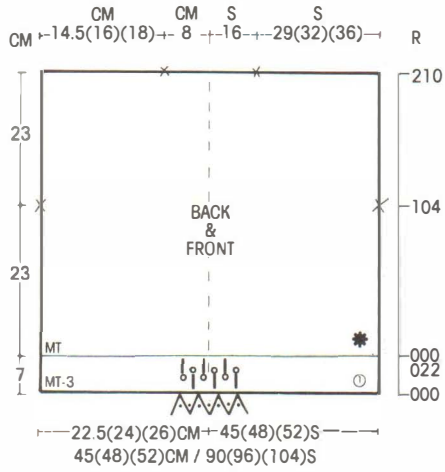
SIZES:
To fit 81(86)(91) cms/32(34)(36) inch bust.

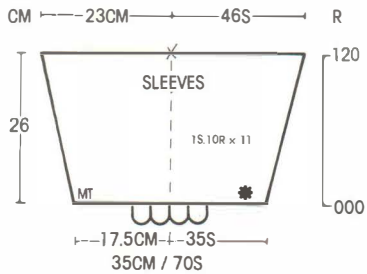
APPROXIMATE YARN TYPES AND AMOUNTS:
Sugar 'N' Spice Jamaica DK
Col 1 (Dark Blue) — 7(7)(8) x 50 grm balls
Col 2 (Pale Blue) — 6(6)(7) x 50 grm balls
Black Lycra Elastic.

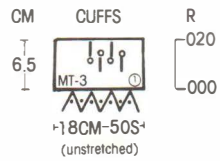
TENSIONS:
Pattern — 20 sts and 46 rows to 10 cms. TD at approx. 3 (MT) on 9mm (5 (MT) on Option 4 Machines).

PATTERN NOTE:
Knit 10 rows col 2. *Knit 10 rows col 1. Pick up the following loops from last row knitted in col 2 and place onto corresponding Ns. Ns 1 and 2 at right of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. N 1 at left of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. Knit 10 rows col 2. Pick up blocks of 3 loops from last row knitted in col 1 to fall in centre of previous ruching and place onto corresponding Ns. ie Ns 6, 7 and 8 at left and Ns 7, 8 and 9 at right of centre 0*. Rept from *to* throughout.

NOTE:
For Machines without ribbing attachment use the latch tool method for making ribs.







BACK AND FRONT ALIKE:
Push 45(48)(52) Ns at left and right of centre 0 to WP. 90(96)(104) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 1 x 1 rib. Using col 1, cast on. RC 000. MT-3, *knit 4 rows col 1 only, knit 2 rows col 1 and elastic*. Rept from *to* twice more. Knit 4 rows col 1 only. RC 022. Transfer sts to knitter. RC 000. MT. Knit 10 rows. Pick up the following loops from last row of rib and place onto corresponding Ns. Ns 1 and 2 at right of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. N 1 at left of centre 0, leave next 11 sts and pick up next 3 loops. Rept to end of row. **Knit 10 rows col 2. Pick up blocks of 3 loops from last row knitted in col 1 to fall in centre of previous ruching and place onto corresponding Ns. i.e. Ns 6, 7 and 8 at left and Ns 7, 8 and 9 at right of centre 0. Knit 10 rows col 1. Pick up blocks of 3 loops from 1st row knitted in col 2 and place onto first group of Ns**. Rept from **to** throughout. Knit to Row 104. Mark both ends with waste yarn. Knit to Row 210. Mark the 16th st at left and right of centre 0 with waste yarn. Cast off loosely.

SLEEVES:
Push 35 Ns at left and right of centre 0 to WP. 70 Ns altog. Using waste yarn, cast on. RC 000. MT. Continue in pattern given in Back and Front and shape as shown on diagram. 92 sts. Knit to Row 120. Mark centre with waste yarn. Cast off.

CUFFS:
Arrange 50 Ns for 1 x 1 rib. Using col 1, cast on. RC 000. MT-3. *Knit 4 rows col 1 only, knit 2 rows col 1 and elastic*. Rept from *to* twice more. Knit 2 rows col 1 only. Transfer sts to knitter. With wrong side of sleeve facing pick up sts from below waste yarn and place onto Ns gathering evenly. Knit 1 row MT. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams to marked points. Set in sleeves between marked points. Join side and sleeve seams. Give final light steam.

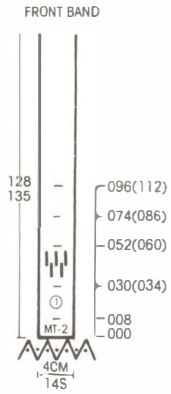


Chart 1

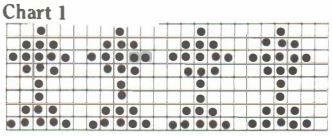


Chart 2

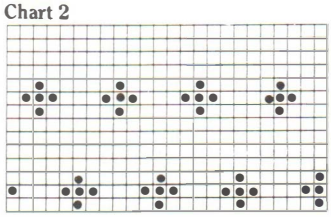


Chart 3

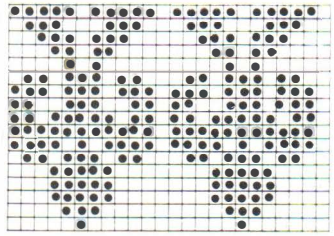
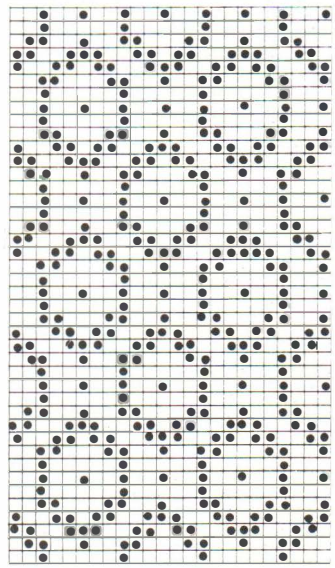


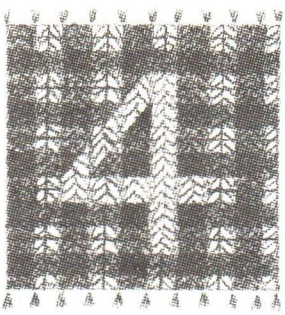
Chart 4



FRONT BAND:
Arrange 14 Ns for double rib. Using col 1, cast on. Transfer 3 sts at left from ribber to knitter. RC 000. MT-2, knit 8 rows. Make a buttonhole over centre 2 Ns. Knit to Row 96(112) making buttonholes over centre 2 Ns on rows shown on diagram. Continue to knit until band measures approx. 128(135) cms. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Join raglon, side ond sleeve seams, reversing half of cuff seam. Fold cuffs in half onto the outside. Sew front band into pos. Finish buttonholes and sew on buttons to correspond. Give final light steam.

Scottish KNITTING fayre



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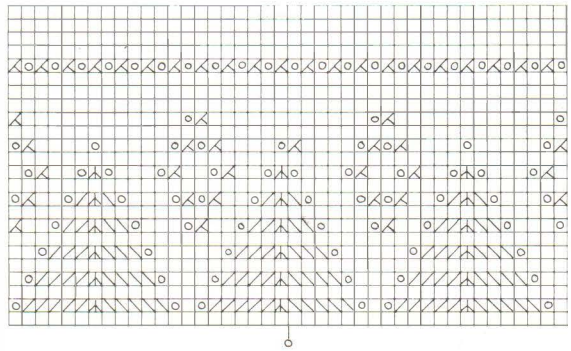
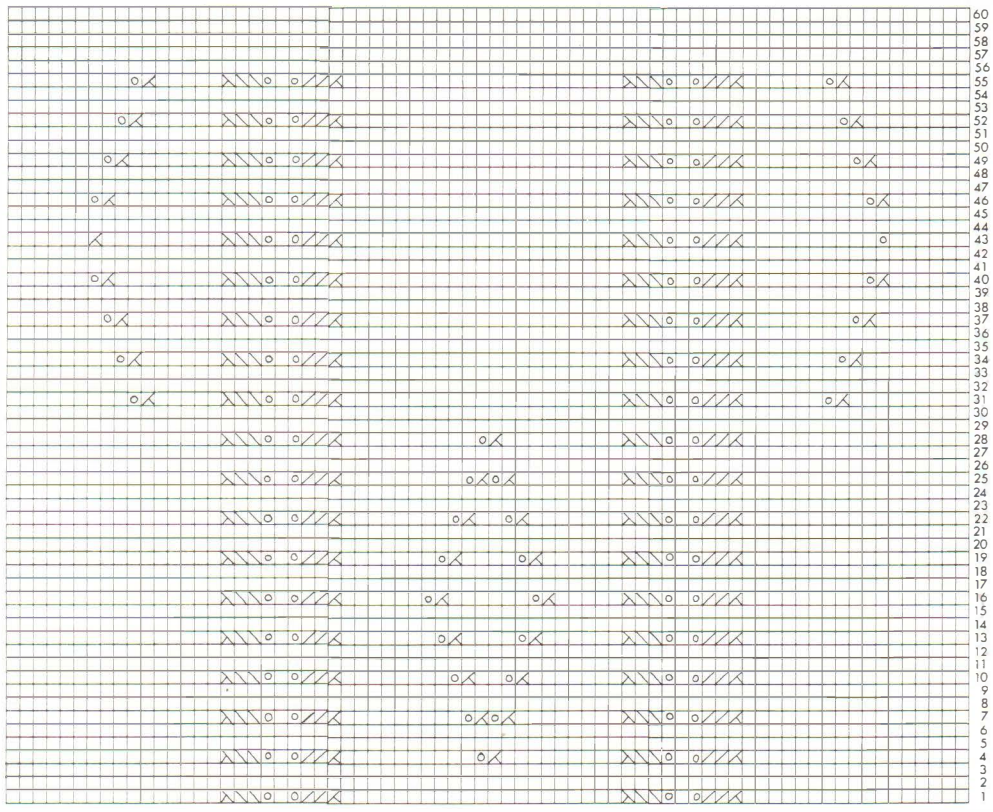
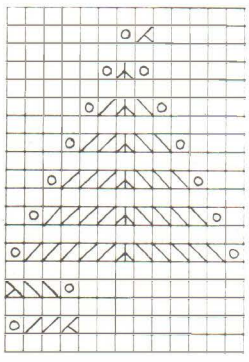
Pattern 2 *continued*

Pattern A



Pattern B





= Transfer st to adjacent N at right using a single ended transfer tool. Leave empty N in WP.

= Transfer sts from left and right onto centre N using a single ended transfer tool. Leave empty Ns in WP.

= Transfer sts from left and right onto centre N using a double ended transfer tool. Leave empty Ns in WP.

= Transfer sts from left and right onto centre N using a triple ended transfer tool. Leave empty Ns in WP.

= Transfer sts from left and right onto centre N using a 4 ended transfer tool. Leave empty Ns in WP.

= Transfer sts from left and right onto centre N using a 5 ended transfer tool. Leave empty Ns in WP.

= Transfer sts from left and right onto centre N using a 6 ended transfer tool. Leave empty Ns in WP.

= Transfer 3 sts to left using a 3 ended transfer tool. Leave empty N in WP.

= Transfer 3 sts to right using a 3 ended transfer tool. Leave empty N in WP.

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These Knitmaster Electronics are versatile enough to meet almost any knitting need.

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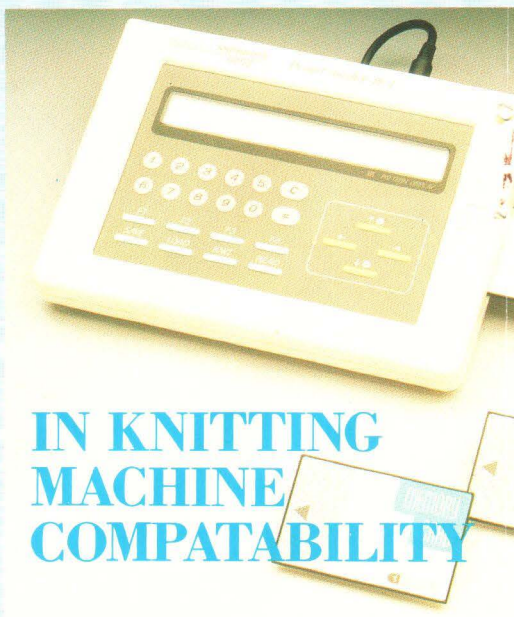
- Change from single motif to all over patterning, or anything in between, simply by sliding the edge cams.



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- Use any existing punchcard or electronic design with either machine — chunky, fine gauge or standard gauge. Simply draw them onto a blank design card or even make up your own designs. Mistakes are easy to rub out so its easy with Knitmaster Electronics.

USE THE MARVELLOUS ELECTRONIC PE1 DESIGN CONTROLLER WITH BOTH MACHINES

The first of a whole range of electronic machine knitting innovations is here and it's exclusive to Knitmaster's Chunky SK890 and SK580 DesignMaster standard gauge.

The PE1 Design Controller is a simple plug-in box which is wonderfully easy to use. However, this easy to use box is, in fact, an extremely complex and sophisticated Design Unit. Plug it into your Chunky SK890 or SK580 DesignMaster and you can produce a single pattern which is the full width of your machine and 2,000 rows long — or smaller, of course, if you like — which means you can create an entire pictorial scene across the width of your machine, design large, intricate geometric designs, write entire messages across your knitting or perhaps just create some of the less ambitious designs which, have, up till now, been beyond the scope of your knitting machine.

The liquid crystal visual display system shows you the card in work and gives you clear and concise instructions whenever necessary, just to make things easier for you.

And, as if that isn't versatile enough, the Design Controller will also store standard patterns or your own patterns — they'll work faster for you than any other electronic system, no need to wait for the card to rewind. Store as many designs as you like on blank memory cards or choose from the pre-programmed memory cards which will offer you a whole selection of new designs to knit on your Knitmaster Electronics.

MORE ACCESSORIES FOR YOUR CHUNKY ELECTRONIC SK890 AND SK580 DESIGNMASTER ELECTRONIC

RIBBERS

For your SK580 DesignMaster The SRP60N Ribber

SK580

There's more to Knitmaster's SRP60N Ribber than just ribs.

With Knitmaster's easy-to-fit SRP60N Ribber, you can knit much more than just ribs. You can knit all these extra stitches too.

- Pile Knitting
- Drive Lace
- Fisherman's Rib
- Plaiting Rib
- Plus Mesh Knitting, Pile Rib and Swing English Rib
- Punch Pin Tuck
- Punch Tuck Rib
- Pick Rib
- Herringbone Swing

Add the YC6 colour changer and you can also knit

SK580

- Double face Jacquard
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- On your SK580 DesignMaster you can create double Jacquard patterns from any single bed design, at the touch of a button — the unique DesignMaster will even automatically set up your first row so you don't have to worry about working it out for yourself.

Add the new RJ1 Rib Carriage for

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- A clearer, more distinct pattern
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With Knitmaster's SRP60N, you can more than double the capabilities of your single bed SK580 DesignMaster.

CHUNKY ELECTRONIC SK890 ACCESSORIES

The following Knitmaster accessories are available for use with your new Knitmaster Chunky Electronic SK890.

- 155 Chunky Ribber
- KR7 Knitradar
- AG30 Intarsia Carriage
- PE1 Design Controller

For your Chunky Electronic SK890 The 155 Chunky Ribber

SK890

There's more to Knitmaster's 155 Chunky Ribber than just ribs

With Knitmaster's easy-to-fit 155 Chunky Ribber, you can not only add beautiful, professional ribs to your knitwear but you can knit all these extra stitch patterns too.

- Pin Tuck
- Fisherman's Rib
- Swing English Rib
- Punch Pin Tuck
- Herringbone Swing
- Tuck Rib
- Drive Lace
- Slip Rib

KNITRADAR

For your Chunky Electronic SK890 and SK580 DesignMaster Electronic

You can slot Knitmaster's KR7 Knitradar onto either your SK580 DesignMaster or SK890 Chunky and make sure every garment you knit is a perfect fit.

Knitmaster's knitradar works from a diagram pattern — similar to a dressmaking pattern — which shows you exactly how many stitches to cast on, and where and when to increase and decrease.

- You choose the yarn — the stitch pattern — the garment shape — and the knitradar does the rest.

STITCH PATTERNS

The following stitch pattern books can be used with either your SK580 DesignMaster or Chunky Electronic SK890.

- 155 Stitch Pattern Book
- PB550 Stitch Pattern Book
- Pattern Library No.3

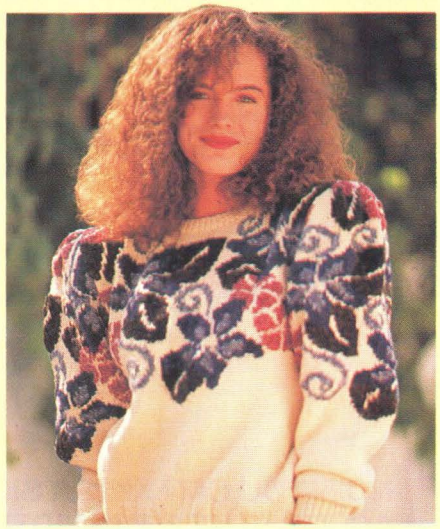
The following stitch pattern book can be used with your SK580 DesignMaster.

- Electronic Lace Pattern Library No.5

The following stitch pattern books can be used with both electronics and have optional Pre Programmed Memory Cards to accompany them.

- PB580 Stitch Pattern Book No.1
- PB580 Stitch Pattern Book No.2

INTARSIA



For your SK580 DesignMaster The AG20 Intarsia Carriage

SK580

SK890

For your Chunky Electronic The AG30 Intarsia Carriage

Intarsia knitting is a really fun way to create unusual and beautifully colourful pictures or geometric designs. Add an Intarsia Carriage to your Knitmaster Electronic and knit beautiful, fashionable intarsia.

SK580 DESIGNMASTER ACCESSORIES

The following Knitmaster accessories are available for use with your SK580 DesignMaster.

- SRP60N ribber
- YC6 single & double bed colour changer
- RT1 Rib Transfer Carriage
- AW1 Automatic Weaving Arm
- KR7 Knitradar
- SC3 Automatic Linker
- LC560 Lace Carriage
- AG20 Intarsia Carriage
- PE1 Design Controller

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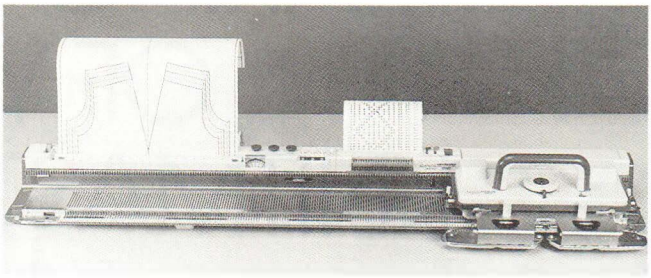

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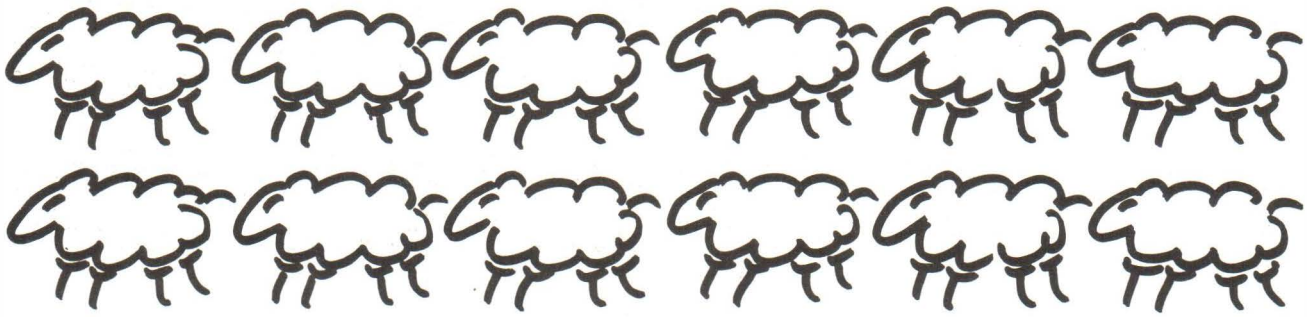

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MAKING THE MOST OF YOUR KNITMASTER RIBBER

(Part 4)

For most of us, the next most important and expensive aquisition after our knitting machine, is the ribbing attachment. However, the ribber tends to be the most under used piece of equipment — not that we don't use it all the time, we do, but only for ribbed welts, cuffs and neckbands. The ribber is under used in terms of the many stitch patterns which can be made on it, with or without punchcards. This series of articles is intended to redress the balance by encouraging beginners, and also more advanced knitters, to use the ribbing attachment to its fullest capacity.

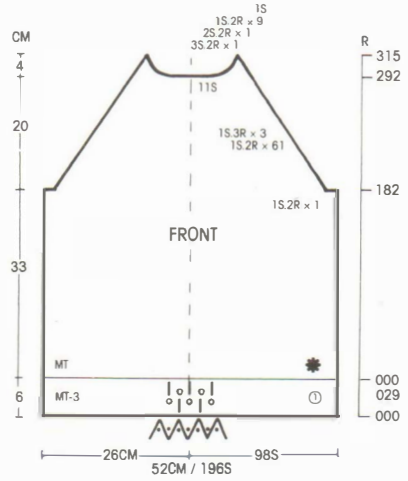
Last month we learnt how to knit Fisherman's Rib, an extremely popular ribber stitch, and also some of it's variations. We even started to knit a classic Fisherman's Rib sweater. However, we have a few more techniques to cover this month to help you finish knitting this classic sweater.

SHAPING THE FRONT NECK

The basic shaping of our Fisherman's Rib sweater last month was fairly straighforward, however, we did suggest you wait till this month before embarking on the front neck shaping. The reason for this is that you must be sure to contine correctly in the Fisherman's Rib pattern when knitting the second shoulder — we've all had this problem with single bed neck shaping too, haven't we? So here's a step by step explanation for knitting the front neck.

Carriage at right. Transfer the centre 22 stitches on ribber to corresponding needles on knitter. As with any pattern which is knitted over alternate needles, the empty needles should be counted as stitches. Using a length of main yarn, cast off the centre 22 stitches by hand. Push all empty needles to Non Working Position. Slide a Side Hanger with Edge Weight into the space at the right neck edge and move the one at right edge up.

Bring to Holding Position, the remaining needles at the left of centre 0. Set the Russell Levers on both carriages to I, so



they won't knit the needles in Holding Position. If you prefer, rather than using Holding Position, you can knit the needles back into Non Working Position using nylon cord.

Continuing with the raglan shaping throughout, knit to the left. Cast off 3 stitches loosely on the neck edge. Make sure the empty needles are back in Non Working Position. Pull up the slack yarn as you knit to the right. Follow the rest of the neck shapings and keep moving the Edge Weights up. Cast off the last stitch.

You're now ready to knit the left side of the neck. Keep the carriage at the right — we'll explain why in a moment. Using a transfer tool, take the remaining needles back to Working Position. You can't knit them back automatically from Holding Position or Upper Working Position because they won't pattern correctly from these positions. Keeping the pattern correct is also the reason why you must start with the Carriage at the right. Fisherman's Rib is created by stitches tucking in one direction and knitting normally in the other direction. After you divided for the neck, you took the Carriage from the right across to the left for the first row of the right neck shaping. To make the first row of the left neck shaping the same, you must also take the Carriage from the right to the left — otherwise you'll have a tuck row instead of a normal row or vice versa.

Remove the large ribber weights and move the Edge Weights into position at each side of the knitting. Now knit the left neck edge in the same way as you knitted the right.

CUT & SEW NECKLINES

The neckline for our Fisherman's Rib Sweater is reasonably straightforward to knit once you know how, but this isn't always the case with ribber garments. Very often, it's more sensible to ignore the neck shaping while you're knitting and cut and sew the neckline later, when you've finished. Here's how:-

Pin out your knitted pieces to size and steam press them — steam will 'set' the stitches so you won't have to worry about

the stitches running when you cut the knitting.

An important point to note here is that 'steaming' means steaming — not ironing. If you allow a hot iron to touch acrylic yarns, you're in danger of marking, flattening or distorting the knitting. If you have a steam iron, hold the iron just above the knitting so that the steam enters the knitting. If you don't have a steam iron, lay a damp cloth over the knitting and gently touch the cloth with the iron to create steam. In both cases you should allow the knitting to dry before unpinning it.

Now back to our cut and sew neckline

The pieces of equipment you will need to Cut & Sew the neckline are as follows:-

A needle
Sewing thread in a contrast colour
Sharp scissors
Pins
Tape measure
A sewing machine threaded with matching thread

Using the tape measure and pins, mark out the neckline on the back and front, referring to the pattern diagram for the appropriate measurements.

Using the needle and contrast colour thread, make large tacking stitches around the neckline on the back and front and remove the pins.

Set the sewing machine to a wide, close zig zag stitch and sew directly over the tacking stitches. Remove the tacking thread. Cut out the neckline on the inside of the zig zag stitches — the zig zag will prevent the stitches from running so don't be nervous!

At this stage, check that the neckline will fit around your head — some styles of neckline may be a little small to go over the head once the edge has been zig zagged. If the neckline is too small, make it a little wider, zig zag over the new neckline and cut away the surplus knitting.

Now knit a double neckband in the normal way, finishing with waste yarn. Backstitch the open stitches of the neckband around the neckedge, making sure the zig zag stitches are hidden. Fold the band in half and catch it down on the inside.

PROBLEM SPOTTING

When you're knitting a ribber garment, there are one or two problems which may crop up which, as with all machine knitting 'problems', can easily be solved if you understand what's causing them in the first place. Here are the sort of problems to watch out for and their simple solutions.

We started to knit this fisherman's rib sweater last month — and this month we explain how to shape the neckline without losing track of the stitch pattern, so you can finish it.

BENT NEEDLES AND LATCHES

Any knitted fabric which involves tuck stitch, as Fisherman's Rib does, will show up bent needles or latches — even if they're only slightly bent and behaving beautifully on all other stitch patterns. Ideally, before you embark on a tuck stitch garment, you should knit a sample in some spare yarn, over all the needles you'll be using. Watch carefully to see that all the needles are knitting correctly and change any needles which aren't 'knitting off' properly. If you really can't bear to do a piece of test knitting first, watch carefully over the first few rows of your garment piece and then check from time to time throughout the knitting — you can actually change a needle while you have knitting on the machine.

STITCHES BUILDING UP AT THE EDGE

You may notice stitches 'building up' at one end of the knitting — usually the left side if you knit with your right hand and vice versa if you're left handed. This happens because many people have a tendancy not to clear the far end of the knitting with the whole of the carriage. As a result, the end stitches don't knit on the way back, causing a 'build up'. The way to avoid this is to make sure that the side lever has passed all the needles before making the return journey. It also helps to knit a little more slowly so that the needles have a chance to knit the stitches properly. After the first 10 rows have been knitted, use a Side Hanger and Edge Weight at each end of the knitting, moving them up every 20 rows.

WEIGHTING THE COMB

How much weight is needed on the ribber comb? As a general rule, 3 large rib weights should be used on the long comb and 2 on the shorter one. However, the important thing is to have the comb hanging straight so that the knitting is weighted evenly. Therefore, make sure that you select the needles evenly at each side of centre 0 and that you put the comb in centrally. The weights should be hung one at each end of the comb, close to the edges of the knitting and, on the long comb, hang the extra weight in the middle.

DECREASING

When you're decreasing on Fisherman's Rib, you may encounter problems when working on the 'tuck' row — sometimes a tucked stitch won't knit properly after it has been decreased. Therefore, whenever possible, decrease on the row where all the stitches have been knitted rather than on the tuck row. If this isn't possible, knit the tuck loop through the existing stitch by hand before transferring it for the decrease.

WHEN THE COMB REACHES THE FLOOR

You'll often find when you're knitting a ribber garment, that the ribber weights reach the floor before you've finished knitting the piece. When this happens, you could roll the knitting around the comb and rehang the two end weights, but this isn't very satisfactory and could cause problems. A better way is to remove the comb and rehang it further up, by pushing the teeth through the knitting, being careful not to split any stitches. Be sure to keep the comb level and spread the knitting evenly.

In the last few months, we've convered many of the teething problems you might encounter when knitting your first ribber garments. And, in the coming months, as we explore each new ribber stitch pattern, we'll deal with any 'problem' associated with that particular stitch pattern. Next month we're going to look at a stitch pattern which involves the Colour Changer as well as the Ribber — double Jacquard.

Pattern 5

JACQUARD CARDIGAN

This beautiful cardigan is knitted in double rib with a pretty double Jacquard border. Keep this pattern because, not only is it an excellent classic style, but you can easily vary it by substituting our Jacquard border with alternative designs. We'll be dealing with double Jacquard in detail next month in part 5 of our Ribber series.

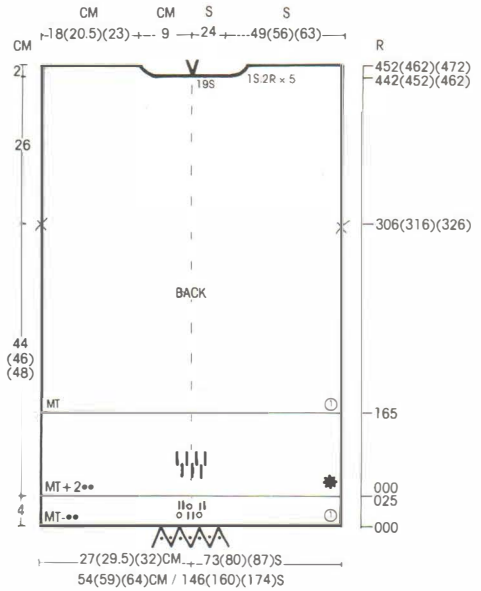
For Stondord Gouge Punchcard Machines with Ribbing Attachment and Colour Changer.
Knitted on Knitmaster's 700K with SRP60N Ribber and YC6 Colour Changer.

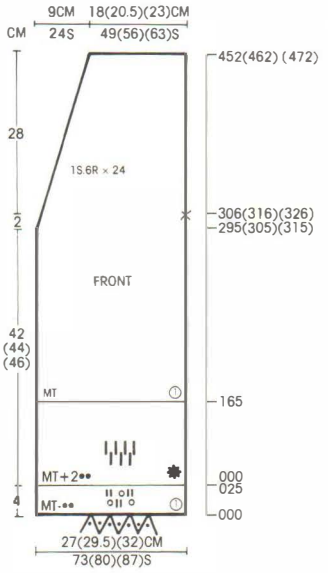
SIZES:
To fit 81-86(91-96)(101-106) cms/32-34(36-38)(40-42) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Knitmaster Aneto 2ply
Col 1 (Plum) — 350(400)(450) grms
Col 2 (Rosebud) — 40(45)(50) grms
Col 3 (Flome) — 30(35)(40) grms
Col 4 (Red Pepper) — 20(25)(30) grms
6 buttons.

TENSIONS:
Double Rib — 27 sts ond 52 rows to 10 cms. TD's at approx. 1•. (MT)
Double Jacquard — 27 sts and 98 rows to 10 cms. TD's at approx. MT+2••
2×1 Rib — 62 rows to 10 cms. TD's at approx. MT-••
Double Rib — 40 rows to 10 cms (measured over 12 sts). TD's at approx. MT

PATTERN NOTE:
Double Jacquard — see punchcord chart. Attach cord 2 to card 1.
*Where a row is shown with a *, change carriage settings as follows. Left Set Lever on ribber to I, Left Side Lever on main carriage forward. Return carriage settings to Left Set Lever 0 and Side Lever back after knitting that row. This one row will return the yarn from right to left on the ribber only.
* Col 1, knit 1 row. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 1 row. *Knit 1 row. Col 2, knit 1 row. *Knit 1 row. Col 3, knit 1 row. *Knit 1 row. Col 3, knit 2 rows. Col 1, knit 2 rows. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 2 rows. Col 1, knit 2 rows. Col 3, knit 1 row. *Knit 1 row. Knit 1 row. *Knit 1 row. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 4 rows. Col 1, knit 2 rows. Col 2, knit 2 rows. Rept the last 4 rows 13 more times. Col 2, knit 2 rows. Col 1, knit 1 row. *Knit 1 row. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 1 row. *Knit 1 row. Col 2, knit 1 row. *Knit 1 row. Col 3, knit 1 row. *Knit 1 row. Col 3, knit 2 rows. Col 1, knit 2 rows. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 2 rows. Col 1, knit 2 rows. Col 3, knit 1 row. *Knit 1 row. Knit 1 row. *Knit 1 row. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 4, knit 2 rows. Col 2, knit 2 rows. Col 3, knit 4 rows.





BACK:
Push 73(80)(87) Ns at left and right of centre O to WP. 146(160)(174) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 2 × 1 rib. Using col 1, cast on. RC 000. MT-••, knit 25 rows. Push empty Ns to WP for double rib. Pick up st heels from below adjacent sts and place onto empty Ns. Insert card and lock on row 1. Take corr across twice without knitting. RC 000 MT+2••. Release card. Continue in Double Jacquard. Knit to Row 165. MT. Continue in double rib. Using col 1, knit to Row 306(316)(326). Mark both ends with waste yarn. Knit to Row 442(452)(462).
Shape Back Neck
Shape as shown on diagram to Row 452(462)(472). Cast off rem 49(56)(63) sts. Knit left part as for right part.

RIGHT FRONT:
Push 73(80)(87) Ns at right of centre O to WP. Push corresponding Ns on ribber to WP. Arrange Ns for 2 × 1 rib. Using col 1, cast on. RC 000. MT-••, knit 25 rows. Push empty Ns to WP for double rib. Pick up st heels from below adjacent sts and place onto empty Ns. Insert card and lock on row 1. Take corr across twice without knitting. RC 000. MT+2••. Release card. Continue in Double Jacquard. Knit to Row 165. MT. Continue in double rib. Using col 1, knit to Row 295(305)(315).
Shape Front Edge
Shape as shown on diagram to Row 452(462)(472), marking right edge on row 306(316)(326). Cast off rem 49(56)(63) sts.

LEFT FRONT:
Knit as for Right Front but in reverse.

Continued on page 45

Pattern 5

Pattern 6

V-NECK INTARSIA SWEATER

This is a nice easy intarsia pattern for you to knit if you've always been a bit nervous of knitting intarsia. There's no chart to follow – you simply move the design in by one stitch at each side every two rows. So, because you won't have to concentrate too hard on creating the intarsia design, you can relax and concentrate on perfecting the intarsia technique, which is so invaluable in machine knitting today.

For Standard Gauge Machines with Ribbing Attachment and Intarsia Facility.
Knitted on Knitmaster's 700K.

SIZES:
To fit 76-81(86-91)(96-101) cms
30-32(34-36)(38-40) inch bust.

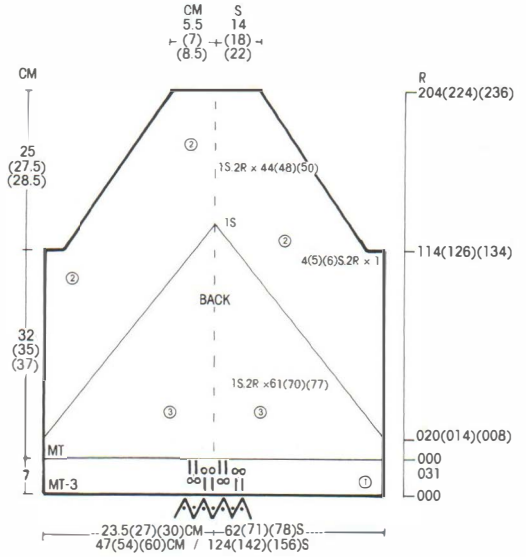
APPROXIMATE YARN TYPES AND AMOUNTS:
Celandine Fiona 100% Supawash Wool
Col 1 (shade 3) – 1 × 500 grm cone
Col 2 (shade 6) – 2(2)(3) × 50 grm balls
Col 3 (shade 7) – 2(2)(3) × 50 grm balls

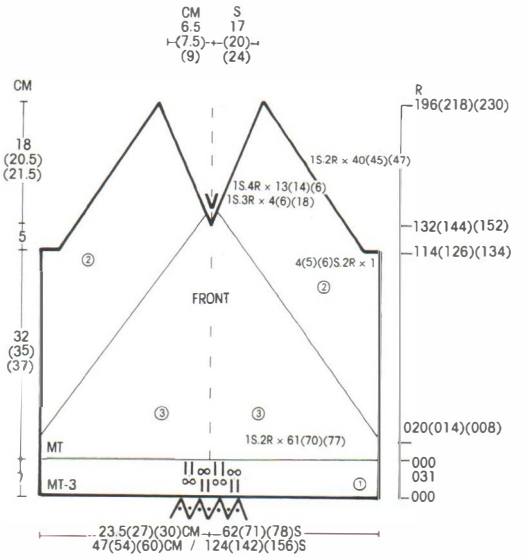
TENSION:
26 sts and 36 rows to 10 cms. TD at approx. 8 (MT).

PATTERN NOTE:
For intarsia pattern follow shaping shown on diagram. Use a 3-prong transfer tool to decrease raglan and v-neck edges.

If you'd like mail order details for Celandine Fiona 100% Superwash Wool, please write to the address below, quoting this issue of Modern Machine Knitting.

Celandine Ltd,
44 Kirkgate,
Otley,
W. Yorks LS21 3HJ.





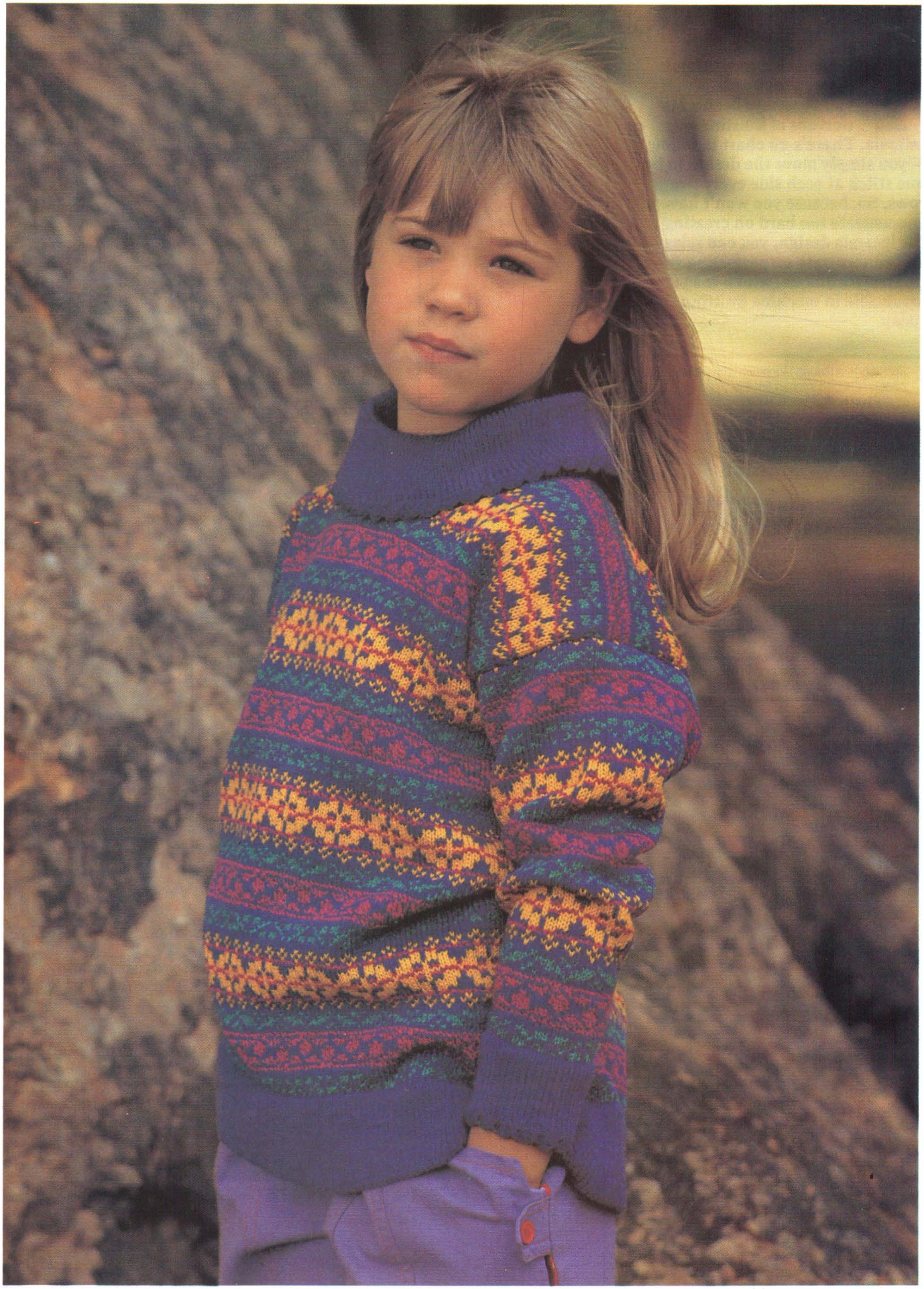
BACK:
Push 62(71)(78) Ns at left and right of centre 0 to WP. 124(142)(156) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 2 × 2 rib. Using col 1, cast on. RC 000. MT-3., knit 31 rows. Transfer sts to knitter. RC 000. MT. Using col 3, knit to Row 20(14)(8). Continue in intarsia pattern following diagram, knit to Row 114(126)(134).
Shape Raglan Armholes
Shape as shown on diagram to Row 204(224)(236). Cast off rem 28(36)(44) sts.

FRONT:
Knit as for Back to Row 132(144)(152).
Shape Neck
Shape as shown on diagram to Row 196(218)(230). Fasten off rem st. Knit left part as for right part.

LEFT SLEEVE:
Push 42 Ns at left and right of centre 0 to WP. 84 Ns altog. Using waste yarn, cast on ending with carr at right. RC 000. MT. Using col 1, shape as shown on diagram. 126(130)(138) sts. Knit to Row 136(144)(152).
Shape Top
Shape as shown on diagram to Row 226(242)(254). Cast off rem 2(4)(2) sts.

Continued on page 44

Pattern 7



CHILD'S BRIGHT FAIR ISLE SWEATER

We've knitted this child's classic Fair Isle sweater with a couple of details which make it slightly different and more fashionable than the usual classic style. Instead of a 1×1 or 2×1 rib, we've knitted the welts and cuffs in double rib to give the straighter line which is so popular at the moment, as is the deeper neckband. An edging has been crocheted onto the edge of the neckband and cuffs to create a small scallop, which is also a new fashion feature. You can quite easily use these features to update some of your favourite classic patterns.

For Standard Gauge Punchcard and Electronic Machines with Ribbing Attachment. Knitted on Knitmaster's Zippy de Luxe.

SIZES:
To fit 61(66)(71)(76) cms/ 24(26)(28)(30) inch chest.

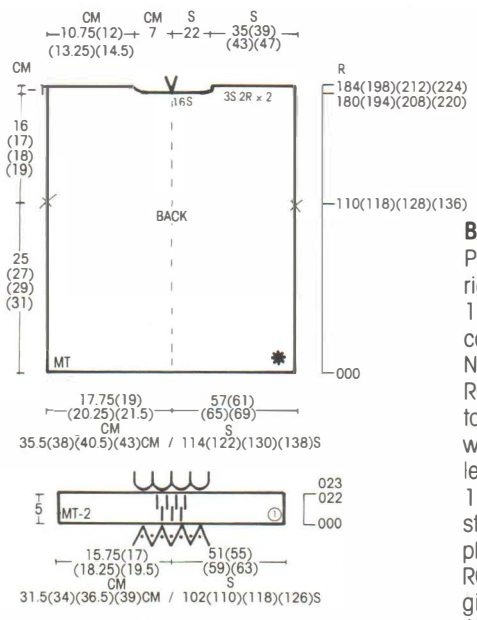
APPROXIMATE YARN TYPES AND AMOUNTS:
Col 1 (Bluebell) — 120(140)(160)(180) grms (Knitmaster Kone 4ply).
Col 2 (Winter Green) — 30(30)(50)(60) grms (Knitmaster Aneto 4ply).
Col 3 (Bright Pink) — 50(50)(60)(70) grms (Knitmaster Blackjack).
Col 4 (Inca) — 60(60)(70)(80) grms (Knitmaster Kone 4ply).

TENSIONS:
Fair Isle — 32 sts and 44 rows to 10 cms. TD at approx. 5 (MT)
Double Rib — 45 rows to 10 cms. TD's at approx. MT-2.

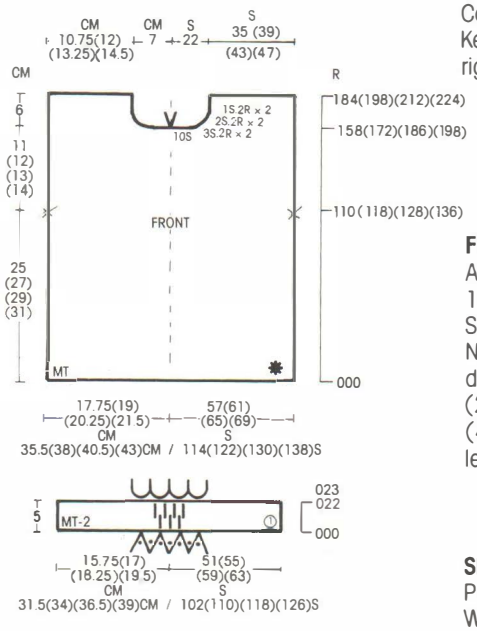
PATTERN NOTE:
Fair Isle — see chart.
*Col 1 in feeder 1, Col 2 in feeder 2, knit 5 rows.
Col 1 in feeder 1 only, knit 2 rows.
Col 3 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 3 in feeder 2, knit 9 rows
Col 3 in feeder 1 only, knit 1 row.
Col 1 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 2 in feeder 2, knit 5 rows.
Col 1 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 4 in feeder 2, knit 3 rows.
Col 3 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 4 in feeder 2, knit 4 rows.
Col 3 in feeder 1, Col 4 in feeder 2, knit 3 rows.
Col 1 in feeder 1, Col 4 in feeder 2, knit 4 rows.
Col 3 in feeder 1 only, knit 1 row.
Col 1 in feeder 1, Col 4 in feeder 2, knit 3 rows.
Col 1 in feeder 1 only, knit 2 rows*.
Rept from *to* throughout.

If you have any problems locating Knitmaster coned yarns, please write to the address below for stockist and mail order information.

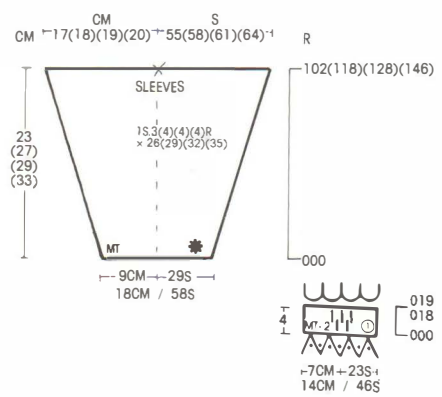
Knitmaster Ltd,
39-45 Cowleaze Rd,
Kingston-upon-Thames, Surrey KT2 6DT.



BACK:
Push 51(55)(59)(63) Ns at left and right of centre 0 to WP. 102(110)(118)(126) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for double rib. Using col 1, cast on. RC 000. MT-2, knit 22 rows. Transfer sts to knitter. Knit 1 row MT. Cast off with waste yarn. Push 57(61)(65)(69) Ns at left and right of centre 0 to WP. 114(122)(130)(138) Ns altog. Pick up sts from below waste yarn on welt and place onto Ns in WP increasing evenly. RC 000. MT. Continue in Fair Isle Pattern given in pattern note, knit 110(118)(128)(136) rows. Mark both ends with waste yarn. Knit to Row 180(194)(208)(220).
Shape Back Neck
Note pos in pattern. Shape as shown on diagram to Row 184(198)(212)(224). Cast off rem 35(39)(43)(47) sts. Keeping pattern correct, knit left part as for right part.



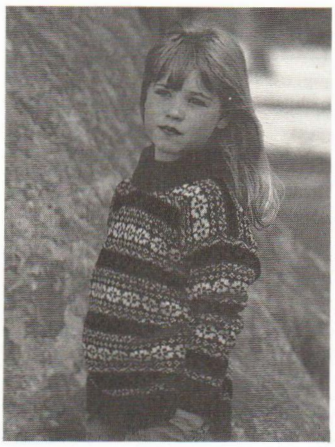
FRONT:
Arrange 34 Ns for Back to Row 158(172)(186)(198) after welt.
Shape Neck
Note pos in pattern. Shape as shown on diagram. Knit to Row 184(198)(212)(224). Cast off rem 35(39)(43)(47) sts. Keeping pattern correct, knit left part as for right part.



SLEEVES:
Push 23 Ns at left and right of centre 0 to WP. 46 Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for double rib. Using col 1, cast on. RC 000. MT-2, knit 18 rows. Transfer sts to knitter. Knit 1 row MT. Cast off with waste yarn. Push 29 Ns at left and right of centre 0 to WP. 58 Ns altog. Pick up sts from below waste yarn on cuff and place onto Ns increasing evenly. RC 000. MT. Continue in Fair Isle Pattern given in pattern note and shape as shown on diagram. 110(116)(122)(128) sts. Knit to Row 102(118)(128)(146). Mark centre with waste yarn. Cast off.

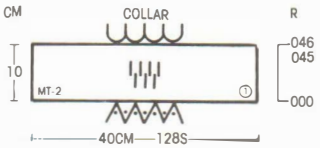
Continued on page 44

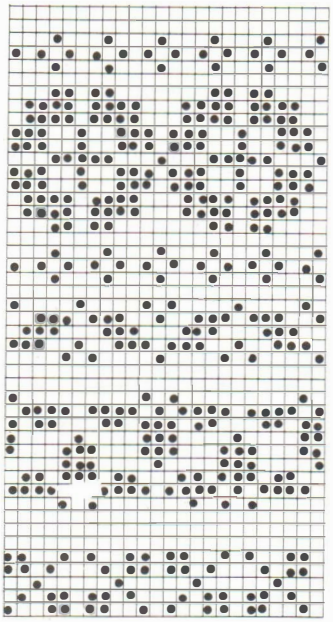
Pattern 7 *continued*



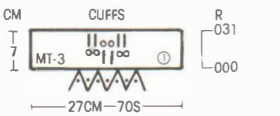
COLLAR:
Arrange 128 Ns for double rib. Using col 1, cast on and knit circular rows in reverse. RC 000. MT-2, knit 45 rows. Transfer sts to knitter. Knit 1 row MT. Cast off with waste yarn.

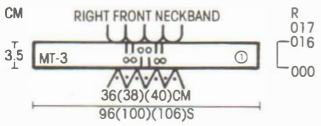
TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves between marked points. Join side and sleeve seams. Backstitch collar into pos and join centre back neck seam, reversing half of seam. Fold collar in half onto the outside. Using col 1, crochet edge of collar as follows:- Work 1 double crochet into 1st edge stitch. *Work 5 trebles into next stitch, work 1 double crochet into next stitch*. Rept from *to* along edge of collar. Give final light steam.

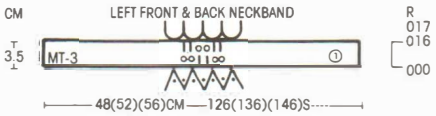


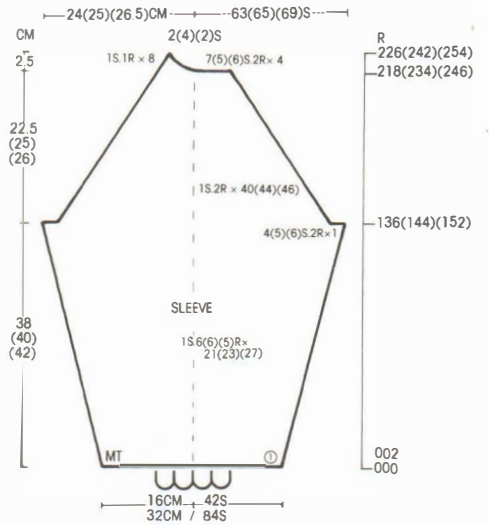


Pattern 6 *continued*









RIGHT SLEEVE:
Knit as for Left Sleeve but in reverse.

CUFFS:
Arrange 70 Ns for 2 × 2 rib. Using col 1, cast on. RC 000. MT-3, knit 31 rows. Transfer sts to knitter. With wrong side of sleeve facing, pick up sts from below waste yarn and place onto Ns gathering evenly. Knit 1 row MT. Cast off.

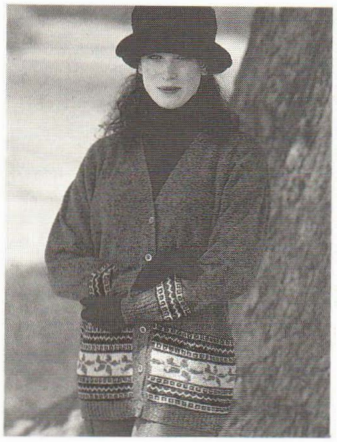
RIGHT FRONT NECKBAND:
Arrange 96(100)(106) Ns for 2 × 2 rib. Using col 1, cast on. RC 000. MT-3, knit 16 rows. Transfer sts to knitter. Knit 1 row MT. Cast off with waste yarn.

LEFT FRONT AND BACKNECK BAND

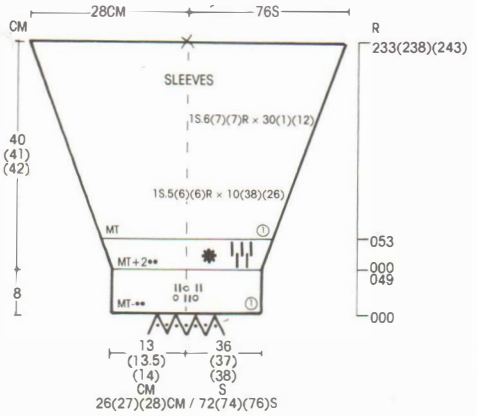
Arrange 126(136)(146) Ns for 2 × 2 rib. Using col 1, cast on. RC 000. MT-3, knit 16 rows. Transfer sts to knitter. Knit 1 row MT. Cast off with waste yarn.

TO MAKE UP:
Pin out to size and steam carefully. Join raglan, side and sleeve seams. Backstitch neckbands into pos overlapping at front. Join neckband seam and neaten front edge. Give final light steam.

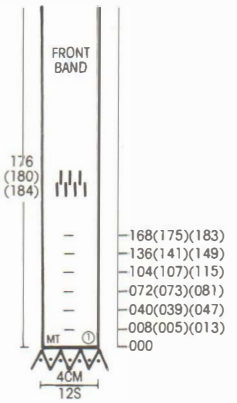
Pattern 5 *continued*



SLEEVES:
Push 36(37)(38) Ns at left and right of centre 0 to WP. 72(74)(76) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 2 × 1 rib. Using col 1, cast on. RC 000. MT-••, knit 49 rows. Push empty Ns to WP for double rib. Pick up st heels from below adjacent sts and place onto empty Ns. Insert card and lock on row 1. Take carr across twice without knitting. RC 000. MT+2••. Release card. Continue in Double Jacquard to Row 53, then change to MT and continue in Double Rib and col 1, AT THE SAME TIME shape as shown on diagram. 152 sts. Knit to Row 233(238)(243). Mark centre with waste yarn. Cast off.

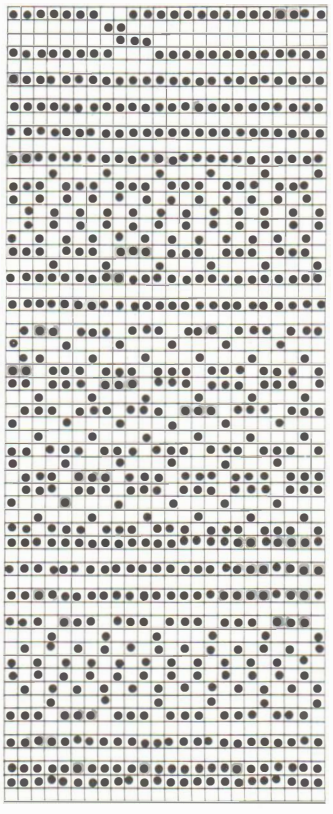


FRONT BAND:
Arrange 12 Ns for double rib. Using col 1, cast on. RC 000. MT. Knit to row 704(720)(736) making buttonholes over centre 4 N on rows shown on diagram. Cast off.

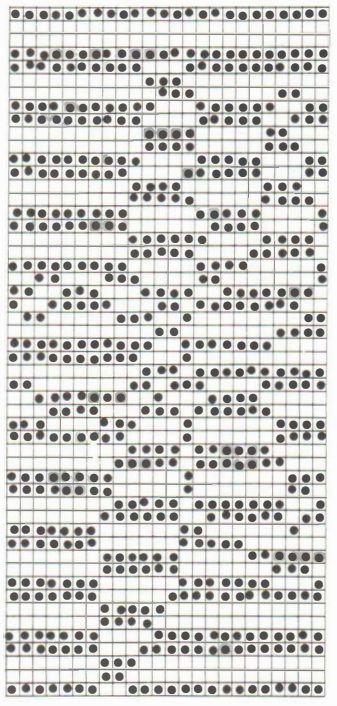


TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves between marked points. Join side and sleeve seams. Sew front band into pos. Finish buttonholes and sew on buttons to correspond. Give final light steam.

Card 1



Card 2



Pattern 8

APPLIQUÉD TOP

This pretty little top will stand you in good stead time and time again. Knit lots of different coloured ones for a full wardrobe of Summer tops, adding a pretty motif like ours if you like or, perhaps introducing occasional stripes of a contrast colour. For evening wear, consider some of the more glittery, glamorous motifs or perhaps Swiss darn or 'paint' a glitter motif of your own.

For Standard Gauge Machines with Ribbing Attachment.
Knitted on Knitmaster's Zippy Plus.

SIZES:
To fit 81(86)(91)(96) cms/ 32(34)(36)(38) inch bust.

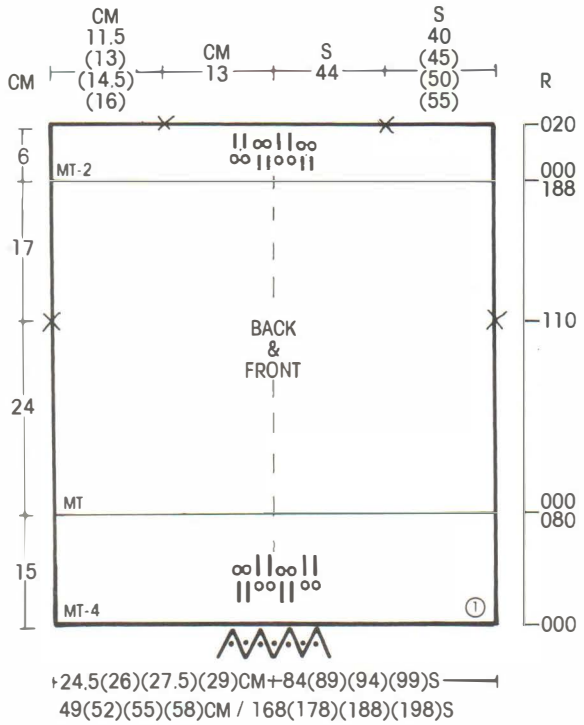
APPROXIMATE YARN TYPES AND AMOUNTS:
Tamm Perla
Col 1 (Peach shade 5123) — 1 × 450 grm cone
Impex Organza lace Applique Pack available from haberdashery and fabric stockists.

TENSIONS:
Stockinet — 34 sts and 46 rows to 10 cms. TD at approx. 6 (MT)
2 × 2 Rib — 33 rows to 10 cms. TD's at approx. MT-2
2 × 2 Rib — 53 rows to 10 cms. TD's at approx. MT-4

PATTERN NOTE:
Stockinet.

If you have any problems locating Tamm Perla, please write to the address below for local stockist and mail order information. Please quote this issue of Modern Machine Knitting.

Tamm Yarns,
The House of Corbiere,
Weston Road,
Weston-upon-Trent,
Derbyshire DE7 2BH.
Tel: 0332 700841.

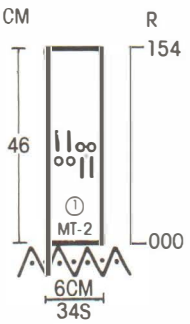


BACK AND FRONT ALIKE:
Push 84(89)(94)(99) Ns at left and right of centre O to WP. 168(178)(188)(198) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 2 × 2 rib. Using col 1, cost on. RC 000. MT-4, knit 80 rows. Transfer sts to knitter. RC 000. MT. Knit 110 rows. Mork both ends with waste yarn. Knit to Row 188. Transfer sts to ribber for 2 × 2 rib. MT-2, knit 20 rows. Transfer sts to knitter. Mark the 44th st of left and right of centre O with waste yarn. Cost off.

ARMBANDS:
Arrange 34 Ns for 2 × 2 rib. Using col 1, cast on. RC 000. MT-2, knit 154 rows. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams to marked points. Sew armbands into pos. Join side and armband seams. Sew on applique. Give final light steam.

ARMBANDS



Pattern 8

Pattern 9

BEIGE AND WHITE FAIR ISLE SWEATER

The combination of this unusual Fair Isle pattern with the slightly textured, lightweight yarn we've used, is very effective — a combination you might like to use on some of your own designs, too. You might also like to knit a couple of different colour combinations of this sweater since it's a nice easy shape to knit and a very wearable style.

For Standard Gauge Punchcard & Electronic Machines with Ribbing Attachment.
Knitted on Knitmaster's 700K.

SIZES:
To fit 81-86(91-96) cms/32-34(36-38) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Coralspun
Col 1 (White) — 1 × 300 grm cone
Col 2 (Sahara) — 1 × 300 grm cone

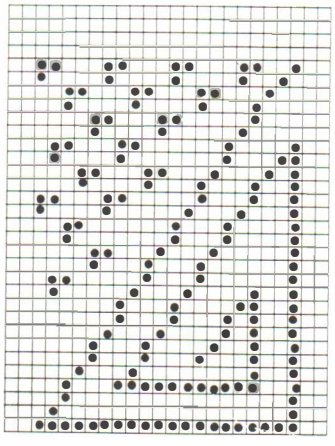
TENSION:
Fair Isle — 30 sts and 38 rows to 10 cms.
TD at approx. 7 (MT)

PATTERN NOTE:
Fair Isle — see chart. Col 1 in feeder 1, Col 2 in feeder 2, knit 28 rows. Col 1 in feeder 1 only, knit 4 rows. Rept throughout.

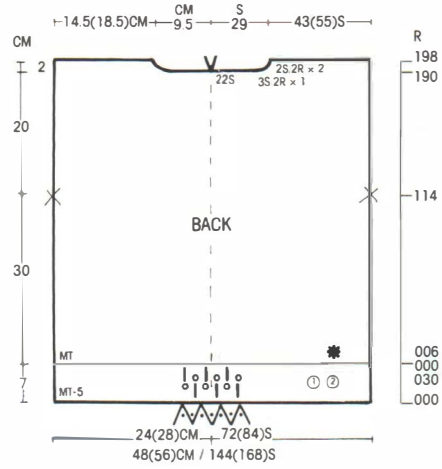
If you have any problems locating King Cole Coralspun, please write to the address below for local stockist and mail order information. Please quote this issue of Modern Machine Knitting.

King Cole Ltd,
Merrie Mills,
Old Souls Way,
Bingley,
W. Yorks BD16 2AX.

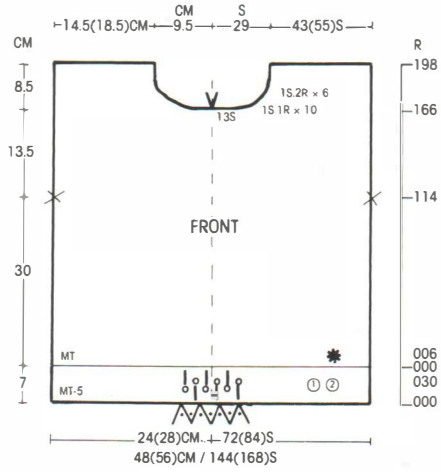
Punchcard Chart



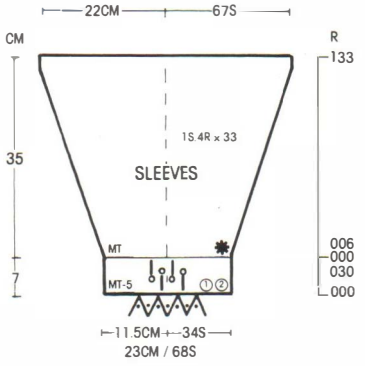
BACK:
Push 72(84) Ns at left and right of centre 0 to WP. 144(168) Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 2, cast on and knit 3 circular rows. RC 000. MT-5, knit 2 rows. Knit 12 rows col 1, 2 rows col 2, 12 rows col 1, 2 rows col 2. RC 030. Transfer sts to knitter. RC 000. MT. Knit 6 rows col 1. Continue in Fair Isle pattern given in pattern note, knit to Row 114. Mark both ends with waste yarn. Knit to Row 190. Shape Back Neck
Note pos in pattern. Shape as shown on diagram. Knit to Row 198. Cast off rem 43(55) sts. Keeping pattern correct, knit right part as for left part.



FRONT:
Knit as for Back to Row 166.
Shape Neck
Note pos in pattern. Shape as shown on diagram. Knit to Row 198. Cast off rem 43(55) sts. Keeping pattern correct, knit right part as for left part.

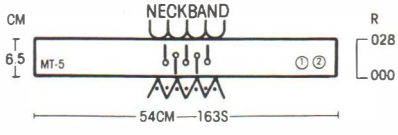


SLEEVES:
Push 34 Ns at left and right of centre 0 to WP. 68 Ns altog. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 2, cast on and knit 3 circular rows. RC 000. MT-5, knit 2 rows. Knit 12 rows col 1, 2 rows col 2, 12 rows col 1, 2 rows col 2. RC 030. Transfer sts to knitter. RC 000. MT. Knit 6 rows col 1 then continue in Fair Isle pattern given in pattern note, AT THE SAME TIME shape as shown on diagram. 134 sts. Knit to Row 133. Mark centre with waste yarn. Cast off.



NECKBAND:
Arrange 163 Ns for 1 × 1 rib. Using col 1, cast on. RC 000. MT-5, knit 12 rows. Knit 4 rows col 2, 10 rows col 1, 2 rows col 2. Transfer sts to knitter. MT. Knit 1 row col 2. Cast off with waste yarn.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves between marked points. Join side and sleeve seams. Backstitch neckband into pos and join centre back neck seam. Fold in half and catch down on the inside. Give final light steam.



Pattern 10

GREEN & GOLD FAIR ISLE SUIT

What we give here, in this pattern, are the full instructions for knitting this pretty little suit on standard gauge punchcard machines. However, these instructions produce a version which has the diamond pattern all over, without the v shaped floral variation on the front of the sweater. To knit this suit with the floral variation, you must have Knitmaster's 580 DesignMaster Electronic machine with the PE1 Design Controller. If you're lucky enough to own the 580 with PE1, we'll send you actual size copies of the design cards so you can trace them straight onto mylar sheets, and also the additional electronic pattern information. If you'd like to take advantage of this offer, please send an SAE to Modern Knitting Ltd, P.O. Box 175, Kingston-upon-Thames, Surrey KT2 6HA.

For Standard Gauge Punchcard Machines with Ribbing Attachment.
Knitted on Knitmaster's SK580 Design Master Electronic.

SIZES:
To fit 81-86(91-96) cms/32-34(36-38) inch bust.

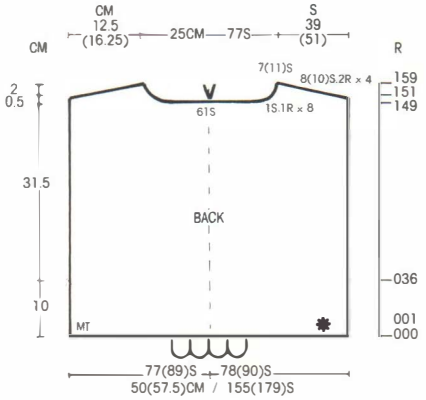
APPROXIMATE YARN TYPES AND AMOUNTS:
Col 1 (Green) — 450(550) grms (100% wool 4ply)
Col 2 (Gold) — 100(150) grms (Lurex type yarn)
Elastic to fit waist

TENSIONS:
Fair Isle — 31 sts and 36 rows to 10 cms. TD at approx. 8 (MT)
Stockinet — 31 sts and 41 raws to 10 cms. TD at approx. MT-2
1×1 Rib — 46 rows to 10 cms. TD's at approx. MT-7

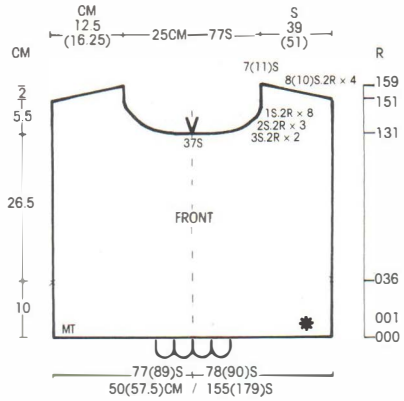
PATTERN NOTE:
Fair Isle — see chart. Cal 1 in feeder 1, Col 2 in feeder 2.

TOP

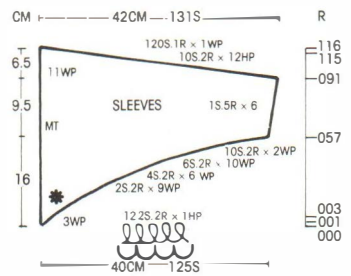
BACK:
Push 77(89) Ns at left and 78(90) Ns at right of centre O to WP. 155(179) Ns altog. Using waste yarn, cast on ending with carr at left. RC 000. MT. Using col 1, knit 1 row. Continue in Fair Isle pattern, knit to Row 36. Note pos in pattern for sleeves. Mark both ends with waste yarn. Knit to Row 149.
Shape Back Neck
Note pos in pattern. Shape as shown on diagram to Row 151.
Shape Shoulder
Shape as shown on diagram to Row 159. Cast off rem 7(11) sts. Keeping pattern correct, knit left part as for right part.



FRONT:
Knit as for Back to Row 131.
Shape Neck
Note pos in pattern. Shape as shown on diagram to Row 151.
Shape Shoulder
Shape as shown on diagram to Row 159. Cast off rem 7(11) sts.
Keeping pattern correct, knit left part as for right part.

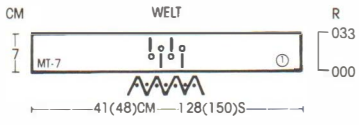


LEFT BACK SLEEVE:
Push 68 Ns at left and 57 Ns at right of centre O to WP. 125 Ns altog. Using waste yarn, cast on ending with carr at right. Push Ns to HP. Using col 1, cast on by hand. Push Ns to UWP. RC 000. MT. Knit 1 row. Mark left edge with waste yarn. Starting with row noted on Back, continue in Fair Isle pattern. Set carr for partial knitting. Always taking yarn round first inside N in HP, push Ns shown on diagram to HP. Using a transfer tool, push Ns shown on diagram from HP to WP. All Ns are in WP. RC 57. Shape as shown on diagram to Row 91. 131 sts.
Shape Upper Sleeve
Push Ns shown on diagram to HP to Row 115. 11 Ns rem in WP. Using a transfer tool, push Ns from HP to WP. RC 116. Cast off. Rept for Right Front Sleeve.



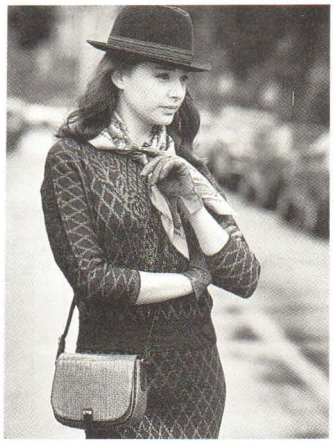
RIGHT BACK SLEEVE:
Push 68Ns at left and 57 Ns at right of centre O to WP. Knit as for Left Back Sleeve but in reverse. Rept for Left Front Sleeve.

WELTS:
Arrange 128(150) Ns for 1 × 1 rib. Using col 1, cast on. RC 000. MT-7, knit 33 rows. Transfer sts to knitter. With wrong side of Back facing, pick up sts from below waste yarn and place onto Ns gathering evenly. MT+2, knit 1 row. Cast off. Rept for Front.



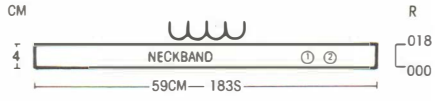
Continued on page 52

Pattern 10 *continued*



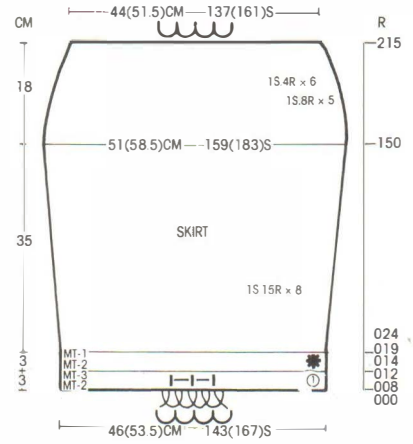
CUFFS:
Join upper sleeve seams, matching pattern. Push 59 Ns to WP. With right side facing, pick up sts along lower edge of sleeve and place onto Ns. RC 000. MT-2. Using col 1, knit 8 rows. MT, knit 1 row. MT-2, knit 2 rows. MT-3. Using col 2, knit 6 rows. MT-2. Using col 1, knit 1 row. Cast off with waste yarn.

NECKBAND:
Join right shoulder seam. Push 183 Ns to WP. With right side facing, pick up 183 sts around neck edge and place onto Ns. RC 000. MT-2. Using col 1, knit 8 rows. MT, knit 1 row. MT-2, knit 2 rows. MT-3. Using col 2, knit 6 rows. MT-2. Using col 1, knit 1 row. Cast off with waste yarn.



TO MAKE UP:
Pin out to size and steam carefully. Join left shoulder and neckband seam. Set in sleeves matching marked points. Join side and sleeve seams. Fold cuffs and neckband in half to right side and backstitch. Give final light steam.

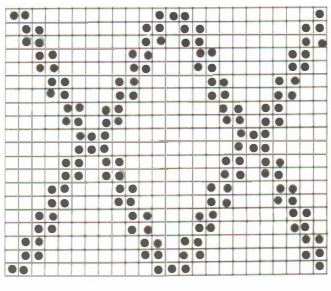
SKIRT
BACK AND FRONT ALIKE:
Push 71(83) Ns at left and 72(84) Ns at right of centre O to WP. 143 (167) Ns altog. Push alt Ns to NWP. Using waste yarn, cast on. Push Ns to HP. Using col 1, cast on by hand. Push Ns to UWP. RC 000. MT-2, knit 8 rows. Push Ns from NWP to WP. MT-3, knit 6 rows. MT-2. Continue in Fair Isle pattern. Knit 5 rows. MT-1, knit 5 rows. MT. Shape as shown on diagram to Row 150. 159(183) sts. Shape as shown on diagram. 137(161) sts. Knit to Row 215. Cast off with waste yarn.

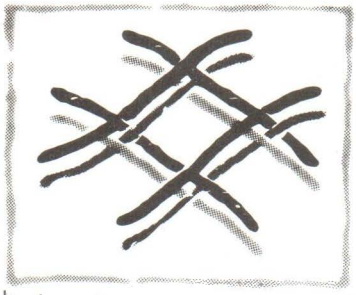


WAISTBAND: (2 Pieces)
Push 112 (135) Ns to WP. With wrong side facing, pick up sts from below waste yarn and place onto Ns gathering evenly. RC 000. MT-2. Using col 2, knit 25 rows. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Fold waistband in half to inside and catch down. Join side seams leaving a small opening in waistband for elastic. Insert elastic and join ends. Turn up 12 rows at lower edge and catch down on inside. Give final light steam.

Punchcard Chart





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HOW TO WORK FROM A DIAGRAM PATTERN

The pattern instructions in Modern Knitting are in the form of a diagram pattern, which is by far the easiest form of knitting pattern to use. However, if you are not familiar with diagram patterns, Here's a step by step guide which will teach you to use this easy-to-follow pattern system. Study the symbols on next page carefully then work through the diagram following the written explanation alongside. You'll find it quite straightforward and, once you have knitted your first couple of patterns using this system, you'll wonder how you ever coped with those long winded written patterns.

First of all, take a look at the diagram itself. The diagram is divided into two halves. On the right side you'll find all the stitch and row references while on the left side you can see we've given all the measurements which will help you when pinning your knitted pieces out to size. In addition, you'll find certain items of information on the diagram such as the needle arrangement for the rib, the type of cast on you should do and any other relevant information you might need. As you can imagine, once you are familiar with this type of pattern, you'll be able to see at a glance just what's involved in the knitting of each design without having to read the whole pattern.

Starting at the lower edge, your first instruction is: ∧∧∧∧ 60S. This tells you to cast on 60 stitches using the ribber.

ı̣ı̣ı̣ı̣ı̣ı̣ı̣ tells you to arrange the needles for a 1 × 1 rib.

000 at the bottom right hand corner tells you to set your Row Counter to 000.

MT-3 tells you to set your Tension Dial to 3 numbers lower than the Main Tension.

The first row number given is 006, so knit to row 6.

The line across the diagram at row 6 tells you that you have finished knitting the rib, so transfer the stitches from the ribber to the main machine.

000 at the right hand edge tells you to turn your Row Counter back to 000.

MT tells you to set your Tension Dial to the Main Tension. Continue knitting until your next instruction which is on row 40.

The diagram pattern shows you that you are now at the stage for shaping the armholes. **Although the shaping instructions are shown on one side of the diagram only, they should be worked on both sides, since the diagram shows there is the same armhole shape on the left side.** If you find it easier to begin with, pencil in the same instructions on the left side to remind you that you have only been given the instructions for one armhole.

1S.1R×2 is the instruction.

1S tells you how many stitches to decrease.

1R tells you how many rows after each decrease.

×2 tells you how many times to decrease.

Therefore, 1S.1R×2 means:-

Decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit one row.

Decrease 1 stitch on both sides, knit 1 row.

The next instruction is 1S.2R×1. Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 2 rows.

The next instruction is 1S.3R×2.

Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 3 rows.

Decrease 1 stitch on both sides. Knit 3 rows.

Your next instruction is not until Row 68 therefore knit to row 68 without shaping.

The diagram pattern shows you that you are now at the stage for shaping the neck.

The symbol ▼ tells you to divide the work in half and knit each side separately.

Therefore, either push the needles at left into holding position, or knit them onto waste yarn and remove from the machine. Now knit the right side as follows: —

5 S tells you that 5 stitches form the base of the neckedge.

Therefore, using a length of main yarn, cast off 5 stitches.

Your next instructions are for the neck shaping

2S.2R × 1
1S.2R × 2
1S.1R × 1

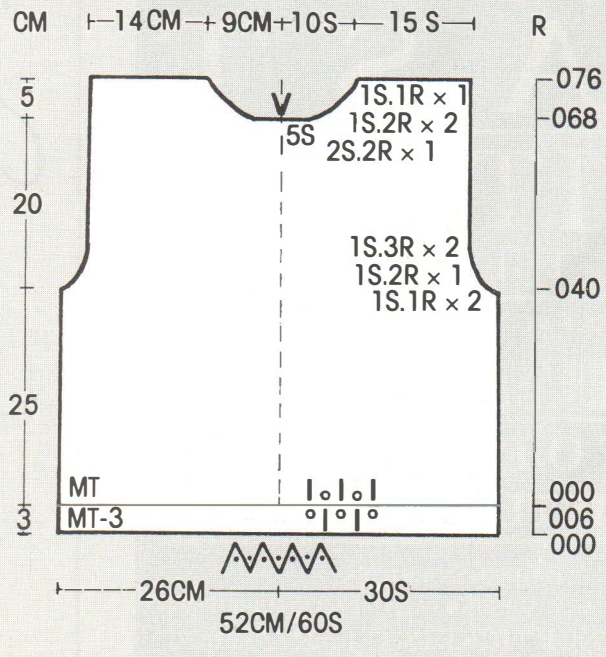
and should be carried out in the same way as before.

The last instruction is on row 76 where the straight line shows you should cast off the remaining 15 stitches.

Then, of course, you must turn the Row Counter back to 68 and knit the left half of the neck in the same way.

For those of you who are new to diagram patterns, the important points to remember are: —

1. The stitch, row and shaping references are on the right half of the diagram.
2. Shaping instructions are given for the right side of the diagram only. They should be repeated on the left if the diagram shows there is the same shape on the left.
3. A shaping instruction such as 2S.1R × 3 means decrease 2 stitches, knit 1 row, 3 times in all.
4. Don't worry too much if you find you're the odd row or stitch out on your first couple of attempts. Nobody will notice and you'll soon get the hang of using diagram patterns and wonder how you ever managed without them.



SYMBOLS FOR THE DIAGRAMS

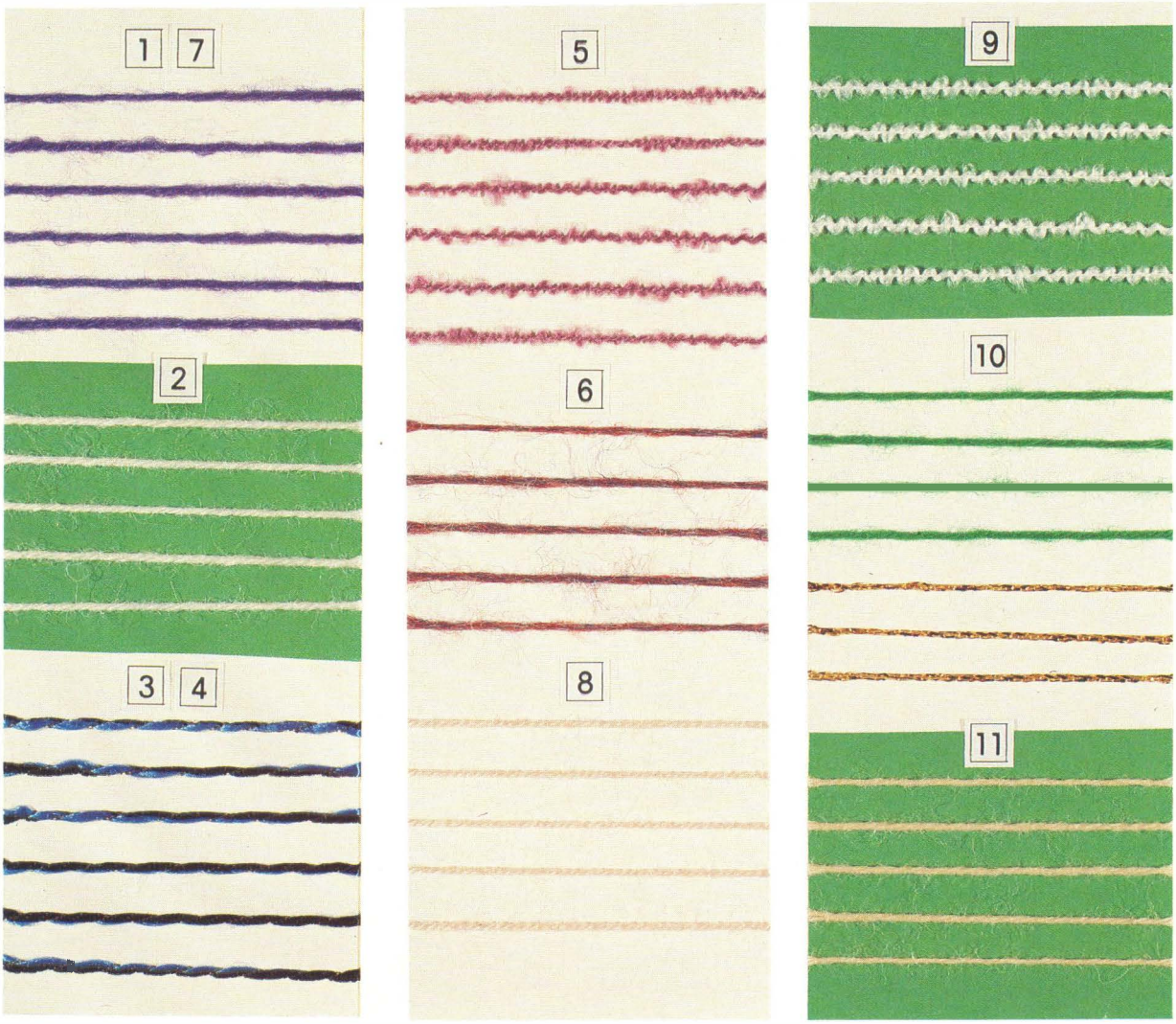
Closed edge cast-on	Turn up a hem
Cast-on using waste yarn	Pattern stitch
Closed edge cast-on with ribber	R — Row
Loose row	MT — Main Tension
Needle arrangement 1 = needle in work position 0 = needle in non-work position	V — Divide work in half and knit each side separately
	Repeat
S = Stitches	2S.2R × 3 is an example of shaping instructions shown on the diagram. The shape of the diagram will indicate whether you are required to increase or decrease. 2S.2R × 3 would mean decrease (or increase) 2 stitches, knit 2 rows, 3 times in all.
( ) Larger sizes	
① Colour	

Abbreviations

Alt	— Alternate
Approx	— Approximately
Beg	— Beginning
Carr	— Carriage
Cm(s)	— Centimetre(s)
Col	— Colour
Dec	— Decrease
Ev	— Every
Foll	— Following
HP	— Holding Position
Inc	— Increase
MT	— Main Tension
N	— Needle
Ns	— Needles
NWP	— Non Working Position
Patt	— Pattern
Pos	— Position
Rept	— Repeat
Rem	— Remaining
RC	— Row Counter
St	— Stitch
Sts	— Stitches
TD	— Tension Dial
Tog	— Together
UWP	— Upper Working Position
WP	— Working Position

YARNS USED IN THE PATTERNS

For your reference we have included an actual size representation of the yarns we have used in the patterns this month. You may find it useful to see how each particular yarn looks before it has been knitted into a garment and it will be particularly useful when we haven't quoted a brand of yarn, simply a type of yarn.
Our overseas readers will also find it helpful since not all the yarns will be available in all countries. However, having said that, it will certainly be worthwhile writing to the spinners listed in our Stockist Information to see if there is an overseas mail order service available.



Pattern 11

WRENS AND WILD ROSES SWEATER

This beautiful and unusual sweater will not only make a wonderful addition to your Winter wardrobe but this pattern provides you with two terrific new punchcard designs which you can use to great effect on designs of your own. You'll find the charts for them on page 58.

For Standard Gauge Punchcard & Electronic Machines with Ribbing Attachment.
Knitted on Knitmaster's SK580 DesignMaster Electronic.

SIZES:
To fit 86-91(96-101) cms/34-36(38-40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Anti-Tickle 4ply
Col 1 (Sand 39) — 425(500) grms
Col 2 (Linden 165) — 50 grms
Col 3 (Pink 6) — 50 grms
Col 4 (Mink 142) 50 grms

TENSION:
Stockinet — 33 sts and 44 rows to 10 cms.
TD at approx 7 (MT)

PATTERN NOTE:
Border Pattern — see chart A
Insert card and lock on row 1. MT-2. Using col 1, knit 2 rows. Release card. Set carr for Fair Isle. MT-1. With col 2 in feeder 1 and col 1 in feeder 2, knit 8 rows*. With col 2 in feeder 1 and col 3 in feeder 2, knit 18 rows. With col 2 in feeder 1 and col 1 in feeder 2, knit 8 rows. Set carr for stockinet. MT-2. Knit 2 rows col 1.

Single Motif — see charts B & C.
Back & Front
Electronic Machines use chart B, Punchcard Machines use chart C.
R C10. Set machine to knit single motif over Ns 11-34 electronic (1-24 punchcard) machines at left of centre 0. With col 1 in feeder 1 and col 4 in feeder 2, knit 38 rows. Continue in stockinet.
R C58. Insert card back to front for this motif only. Set machine to knit single motif over Ns 21-44 electronic (25-48 punchcard) machines at right of centre 0. With col 1 in feeder 1 and col 4 in feeder 2, knit 38 rows. Continue in stockinet.
R C98. Set machine to knit single motif over Ns 49-72 at left of centre 0. Col 1 in feeder 1, col 4 in feeder 2, knit 38 rows. Continue in stockinet.
Sleeves
Both Electronic and Punchcard machines use chart B.
RC 050. Set machine to knit single motif over centre 24 Ns. Col 1 in feeder 1, col 4 in feeder 2, knit 38 rows. Continue in stockinet.

If you have any problems locating King Cole Anti-Tickle 4ply, please write to the address below for local stockist and mail order information. Please quote this issue of Modern Machine Knitting.

King Cole Ltd,
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Old Souls Way,
Bingley,
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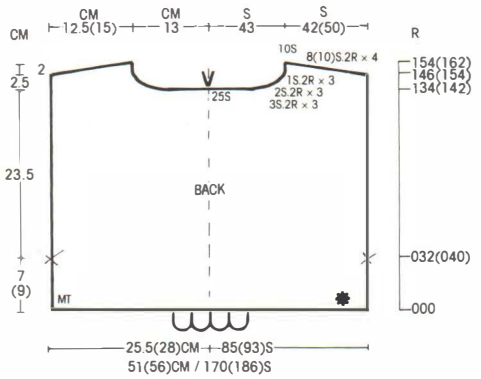
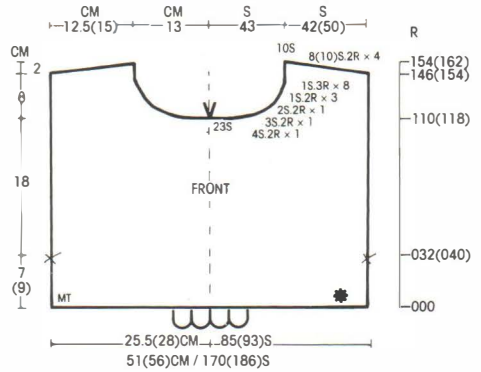
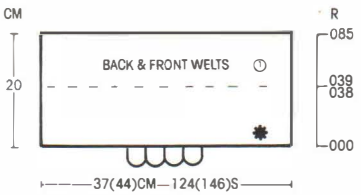




BACK:
Push 85(93) Ns at left and right of centre 0 to WP. 170(186) Ns altog. Using waste yarn, cast on. RC 000. MT. Continue in single motif pattern given in pattern note, AT THE SAME TIME knit to Row 32(40). Mark both ends with waste yarn. Knit to Row 134(142)
Shape Back Neck
Shape as shown on diagram to Row 146(154).
Shape Shoulder
Shape as shown on diagram to Row 154(162). Cast off rem 10 sts. Knit left part as for right part.

FRONT:
Knit as for Back to Row 110(118).
Shape Neck
Shape as shown on diagram to Row 146(154).
Shape Shoulder
Shape as shown on diagram to Row 154(162). Cast off rem 10 sts. Knit left part as for right part.

BACK AND FRONT WELTS:
Push 62(73) Ns at left and right of centre 0 to WP. 124(146) Ns altog. Using waste yarn, cast on. RC 000. Knit 38 rows border pattern as given in pattern note. MT+3, knit 1 row. MT-2, knit to Row 85. With wrong side of Back facing, pick up sts from below waste yarn and place onto Ns gathering evenly. MT+3, knit 2 rows. Cast off. Rept for Front.



Continued on page 58

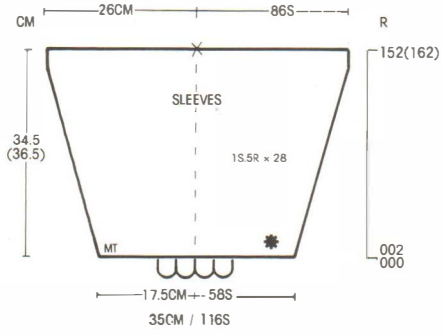
SLEEVES:
Push 58 Ns at left and right of centre 0 to WP. 116 Ns altog. Using waste yarn, cast on. RC 000. MT. Continue in single motif pattern as given in pattern note, AT THE SAME TIME, knit 2 rows. Shape as shown on diagram. 172 sts. Knit to Row 152(162). Mark centre with waste yarn. Cast off.

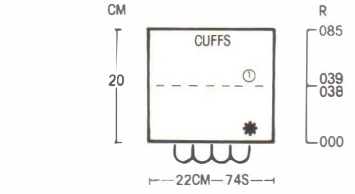
CUFFS:
Push 37 Ns at left and right of centre 0 to WP. 74 Ns altog. Using waste yarn, cast on. RC 000. Knit 38 rows border pattern as given in pattern note. MT+3, knit 1 row. MT-2, knit to Row 85. With wrong side of Sleeve facing, pick up sts from below waste yarn and place onto Ns gathering evenly. MT+3, knit 2 rows. Cast off.

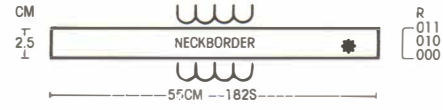
NECK BORDER:
Push 91 Ns at left and right of centre 0 to WP. 182 Ns altog. Using waste yarn, cast on. RC 000. Continue in border pattern to *. Knit 1 row stockinet col 1. Cast off with waste yarn.

NECKBAND:
Arrange 174 Ns for 1 × 1 rib. Using col 1, cast on. RC 000. MT-2, knit 30 rows. Transfer sts to knitter. With wrong side of neck border facing, pick up sts from below waste yarn on cast off edge and place onto Ns gathering evenly. MT+3, knit 2 rows. Cast off.

TO MAKE UP:
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves between marked points. Join side and sleeve seams, reversing half of welt and cuff seams. Fold in half onto the outside and backstitch into pos. Backstitch neck border into pos and join centre back neck seam. Fold neckband in half and catch down on the inside. Give final light steam.







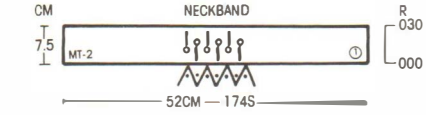


Chart A

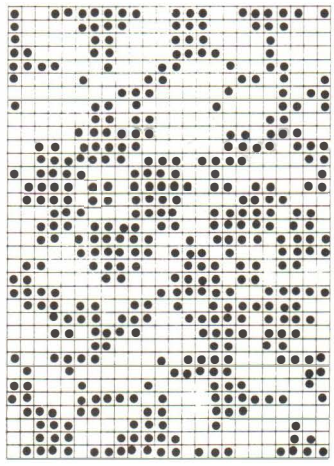


Chart B

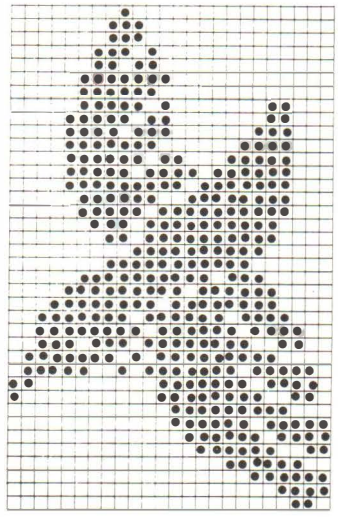
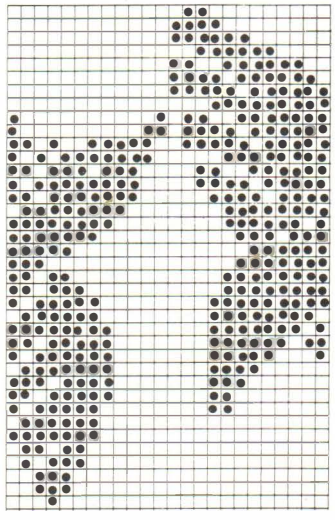


Chart C



Note for Electronic Owners.
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BROTHER 881 with ribber. Knitleader, lace intarsia, linker, puncher and cards, woolwinder, loads of yarn and magazines, table. Will separate. Excellent condition, £550. Tel: (0455) 631585 (Hinckley, Leics).

KNITMASTER Electronic 560 machine, built-in radar, and lace carriage. Very good working order, £395. Tel: (0903) 68431 (Worthing).

TOYOTA 858 with lace carriage and manual, £70 ono. Tel: (0709) 523380 (Rotherham).

HAGUE linker (hand), £85. Passap Forma, £40. Stirella ironing system, hardly used, £85. Tel: Maidstone (0622) 688107.

TOYOTA 950 with ribber, tilt, table, linker, transfer carriage, all as new, £550 ono. Tel: (0256) 470275 (Basingstoke).

KNITMASTER Zippy de-luxe with ribber, plus woolwinder, cam set, 4-way tension assembly and lots of wool. Manuals, £400. Tel: (0304) 363816.

HAGUE linker. Point, ring, measure, £110. Tel: 081 3114947, after 12/8/90: 081 3102391 (London).

KNITMASTER 260KL lace carriage, intarsia carriage, SRP50 ribber, plus books, table. Other extras, £350. Tel: (0303) 862870 (Canterbury).

BROTHER chunky 260 and ribber. Used twice, £495. Tel: (0942) 603371 (Leigh) evenings.

BROTHER 881 plus ribber and table. Intarsia, Knitleader, books, lace carriage, punch cards and roll spare, £450. Tel: (0262) 671828 (Bridlington).

MACHINE knitting book. John Allen, £5. Glorious knitting. Kaffe, Fassett, £5. Machine knitters handbook. Hazel Pope, £5. Creative knitting, Kaori O'Connor, £3. All plus postage. Tel: (0892) 661773 (Crowborough).

BROTHER 836 punchcard machine, cleaned needles, renewed. Complete manuals. 4 cones, yarn, £200 ono. Punchcards. Zippy 90, chunky, used once, igc, £85 ono. Tel: (0952) 592317 (Telford).

KNITMASTER 700K Masterglide punchcard machine built-in Knitradar, intarsia, radar charts. Also ribber and lace carriage, £500. Tel: (04203) 87617 (Hants).

KNITMASTER 700 ribber. SRP50, YC6. Colour changer, lace carriage. Extras, £575. will separate. Tel: 566801 (Leeds).

KNITMASTER Knitlink, as new, £260. Passap Duo 80, deco, Colour changer, £420. Knitmaster lace carriage, £90. Genuine reason for selling, 3 step-by-step charting designs, £15. Tel: 252714 (Southampton).

KNITMASTER 360KL Radar lace carriage. Punchcards SRP50 ribber YC5. Colour changer, intarsia carriage, RTI rib, transfer carriage, machine cabinet with stool, £500 ono plus extras. Tel: (0378) 75761 (Epping).

BROTHER KH260 chunky knitting machine with ribber. Excellent condition, £475. Tel: (0460) 40112 (Somerset).

BROTHER 891 plus 850 ribber, £425. Would consider swop plus cash for Brother 950i. Consider collection Wiltshire. Tel: (0793) 536124 (Wiltshire).

BROTHER 710 machine. Lace carriage, fair isle, tuck, suitable beginner, £80 ono. Tel: (0258) 453484 after 6pm. (Blandford).

KNITMASTER 500 Electronic. Instruction books, Knitradar, sheets, YC5 colour changer, good condition. Can post, £300. Hague Linker, £90. Tel: (0952) 883565 (Telford).

KNITMASTER 580. Boxed, unused. PE-1 YC-6. Rib, transfer, automatic linker, intarsia carriage, colour changer, bobbin winder, new cones, magazines. Plus many accessories, £950. Tel: (0453) 752185 (Stroud).

BROTHER KH260 chunky punchcard machine with ribber. Excellent condition, £520. Tel: (0243) 605912 (W. Sussex).

BROTHER KH260chunky. Punchcard knitting machine with ribber, intarsia carriage and some books, £500 ono. Tel: (0273) 739807 (East Sussex).

A-Z Machine Knitting, £25. Hardly used. Tel: (0332) 674911 (Derby).

EXCHANGE electric organ. Many features, 33" high, 21" deep, 39½" wide. Cost £1,000. Excellent condition. For Knitmaster Electronic with lace carriage and ribber. New condition essential. Tel: (04024) 53658 (Upminster, Essex).

CULCUKNIT as new. Plus 'Mysteries of The Calcuknit Unravelled' by Maggie Stoker, £45. V. M. Neaverson. 73 Balderton Gate, Newark, Notts NG24 1UN (Newark).

KNITMASTER 500 Electronic, £225. Intarsia carriage. AG20, new, £15. Tel: (0903) 721523 (West Sussex).

BROTHER KH170 with lace carriage knits fair-isle and tuck, £100. Brother 881 with built-in Knitleader Automatic Punchcard Lace carriage instruction books and punchcards, £250. Tel: 511057 (Oxford).

BOND chunky machine and extensions ribber and extensions. Tools, books, case, row counter, wool grabbers, big carrying-bag, vgc, £200 ono. Tel: (02806) 332 (Buckingham).

KNITMASTER 120 chunky with ribber instruction manual and accessories. Excellent condition. Modern knitting 120 pattern book, £125. Tel: (0305) 770079 after 6pm. (Dorset).

BOND with bed extension and extras, £100. Tel: (0952) 586504 (Shropshire).

KNITMASTER 360 with ribber, transfer carriage, linker, many punchcards, lace carriage, £375. Keyto cabinet and bench, vgc, £95. Tel: (0525) 377059 (Leighton Buzzard).

BROTHER 910 Mk 2 Electronic plus ribber double and single colour changer. Linker, transfer carriage, books, wool, 30 cones, electric wool winder, Keyto cabinet, bench. Lots more access, £800. Tel: (061) 338 3262 (Manchester).

SINGER Freestyle 2310, hardly used, Electronic section, never used, plus instruction books. Tel: (0235) 851002 (Blewbury).

SELL or exchange Brother single bed colour changer, £45 or exchange for 8 way tension mast. Tel: (0642) 472849 (Redcar).

HAGUE linker, as new, plus video, £100. Table £5. De-knit (Knitmaster) £2. Not a knot, £2. Tel: (0203) 460419 (Coventry).

BROTHER Electronic 950 with ribber. Garter, carriage colour changer, Db knit leader and transfer carriage, 18 months old, rarely used, £1,200 ono. Tel: (0707) 329365 (Welwyn Garden City).

BROTHER KH830, immaculate condition, perfect working order, recently serviced. Complete with lace carriage, punchcards,

FOR SALE

instruction book. A bargain for £180 (disability forces sale). Tel: (0706) 815772 (Todmorden).

KNITMASTER chunky and ribber 151, hardly used, £325 ono. Tel: 73879 (Bodmin).

BROTHER KH830 with ribber and lace carriage, punchcards, case and box. Excellent condition, £295. Tel: Horndean (0705) 599152 (near Petersfield, Hampshire).

TOYOTA KS950, ribber KR501, knit tracer, K33A, punchcards, instruction books, £400. Tel: 696528 (Reading).

BROTHER 910 Mark 2 electronic, ribber, transfer carriage, cone winder, books, Mylar sheets. Keyto cabinet and bench. All excellent condition. Illness regrettably forces sale, £700. Tel: (020488) 5095 (Ramsbottom, Lancs).

KNITMASTER 323 main bed ribber colour changer, card, punch, wool winder, all essential accessories. Excellent condition, £250. Tel: (081) 462 2632 (Bromley).

OVERLOCKER Brother S26D. Four thread differential feed. Excellent condition, £225 ovno. Brother KA8210 intarsia carriage, £15. Brother 710 stitch pattern book, £5. Tel: (0993) 845001 (Oxfordshire).

KNITMASTER 500K electronic SRP50 ribber. Intarsia YC5. Colour changer. SC1 linker, books, Mylar sheets, perfect working order. Tel: (0925) 763711 (Warrington).

BROTHER KH260 chunky punchcard machine and ribber. Also table colour changer and intarsia carriage. The lot £490. Tel: 021-331-4554 (Birmingham).

HAGUE linker. Good condition, approx two years old. Have now bought electric linker, £125. Tel: Phone (0679) 4636 (Kent) after 6pm please.

PFAFF Duomatic 80 (brown) four colour changer. Deco, etc. Good condition. Reason for sale, gone electronic, £395. Tel: (06794) 636 (Kent) after 6pm please.

BROTHER 910 Mk 2 ribber, eight way colour changer, lace intasia transfer carriages, linker, Knitleader, wool, patterns, many extras, ring for details, excellent condition, £750 Tel: (0993) 704092 (Witney).

KNITMASTER YC5 colour changer, hardly used, £40. Tel: (0590) 23264 (Hants).

GRAPHS for 30 & 18 needle machines, single motive, £1, sets £6 & £12 anything undertaken. Could the lady who rang on 21st June please ring back as we got cut off. Tel: (0993) 773420 (Oxford).

BROTHER 950 electronic with ribber, very good condition, £700 ono. Tel: (0304) 369384 (Deal).

SINGER 611 Electronic double bed, instruction books, tools and table. Cost £599, accept £395. Also Zippy De-lux with intarsia carriage, £195. Tel: (0200) 29238 (Clitheroe).

BROTHER KH230 chunky for intarsia. Used twice, excellent condition, £100 ono. Tel: (0784) 251458 (Staines).

WILLCOX & Gibbs electric sewing machine, £45. Electric Orion knitting machine, £120. Harrison industrial knitting machine, 36" bed, swing lever drive, £250. Pink Passap & stand, £150. Tel: (0492) 78398 (Llandudno).

KNITMASTER 360 standard gauge built-in radar punch cards, patterns and instruction books, very good condition, £175. Tel: (0622) 35327 (Maidstone, Kent area).

SINGER sewing machine. model 6105. New condition. Automatic buttonholes, zig zag, zipper, foot, twin, needle, £75, exchange or wanted electric wool winder. Tel: (0245) 353510 (Chelmsford).

TOYOTA 901 ribber, simulknit tilt, table, lace carriage. Extras, excellent condition. Tuition given if required, £350 ono. Tel: (0302) 328309 (Doncaster).

BOND Classic chunky and ribber. Lots of extras including yarn grabbers. row counter, spare keyplates and plenty of pattern books, £120 ono. Tel: (0249) 658988 (Chippenham, Wiltshire).

NEW Brother Linker KA8310, £50. Transfer carriage KA8300, £50, 8 way tension mast, £30. Wool winder, £5. Boxed with instructions. Post or meet halfway. Tel: (0860) 293349 (Yorks area).

PASSAP Duo 80 four colour changer. Form computer, Forma U80 carriage. Many books, £600 ono. Smaller house forces sale. Tel: (061-226) 0447 (Manchester).

BROTHER KR395 convertible. Needle beds have 220 needles for standard knitting and 110 for chunky. Settings for tuck, slip, plating and intarsia, £140. Tel: 071-701-2130 (SE London).

KNITMASTER 326 built in Knitradar. Complete with tools, punchcards, instruction manuals and intarsia carriage, £150. Tel: (069262) 243 after 6pm (Norwich area).

KNITMASTER 700 KL ribber. Lace carriage, intarsia, punchcards, immaculate condition, hardly used, £525. Tel: (0903) 742084 (W Sussex).

PASSAP Forma, £55. Will post anywhere. yarn twister/wool winder, £15. Tel: (0224) 742819 (Aberdeen).

KNITMASTER SK313. As new with pattern and tuition books. Also punch cards, £50. Tel: (0395) 271628 (Exmouth).

FOR SALE

KNITMASTER 328 punchcard. Knitradar attached plus ribber, £250. Volume 1 and 2 Knitmaster. Punchcard patterns, £15 complete. Tel: (081) 550 8294 (Ilford, Ex).

SIMPLEFRAME R96 stocking stitch attachment, double knit, rails, carry bag, hardly used, £55. Tel: (0256) 25539 (Basingstoke).

MOTOR drive unit with foot control and continuous run. Excellent condition. Also steel table, £300 ono. Tel: (0946) 810277 (Cumbria).

PASSAP Duo 80. Four colour changer (used once). Deco form computer, Forma, U100, 6 cassettes, 20 books, all unused. Quantity of yarns. Will separate, £850. Tel: (0647) 24620 (Exeter).

PASSAP Duomatic S col changer, Deco. Almost new, £299. Brother 881 punchcard, lace carriage, hardly used, £199 or £450 for the two. Room needed. Tel: (09285) 60001. (Runcorn).

KNITMASTER 360 KL and ribber SRP 60N, lace and intarsia carriage, cassettes, table and extras. Can be delivered, £350. Tel: (0707) 334380 (Welwyn Garden City).

BOND Elite chunky machine, tuition video, books, spray, yarn grabbers, row counter, hardly used. Unwanted present. Ring after 7.30pm or weekends. Price £130 ono. Tel: (0929) 424512 (Swanage, Dorset).

KNITMASTER 321 punchcard knitting machine. Recently serviced, £110. To include table, 2 hours, tuition and delivery within East Midlands. Tel: (0602) 382114 (Nottingham).

BROTHER 710 push button knitting machine. KNits lace, tuck, fair isle, weaving. Good condition. Bought Electronic, £70. Can deliver. Tel: (0767) 40124 (Mogerhanger).

BROTHER KH 910 Mk2 Electronic machine. Extra books, patterns, excellent condition, £325. Power-knit motor, table count down, £350. Tel: (0752) 794355 (Plymouth).

PASSAP U80, £60; Form computer, £90; Forma, £50; model books, £1 each. Tel: (0302) 882940 (Doncaster).

KNITMASTER 151 chunky machine, hardly used. Only 1 year old, excellent condition, £150. Tel: (0634) 863874 (Chatham, Kent).

BROTHER Electronic KH950 plus ribber 850. Lace carriage, transfer carriage, linker and patterns, £720. Still boxed. Tel: (0924) 376235 (Wakefield).

KNITMASTER 700K knitting machine. Built-in radar. Also SRP 60N ribber. Both months old. Tel: (0773) 861042 Junction M1 A38 Notts/Derby (Pinxton).

TOYOTA chunky knitting machine, KS610, brand new. Accessories: woolwinder, table, £180. Buyer collects. Tel: (659) 5429 (Sydenham).

PFAFF Tipmatic 48 sewing machine, immaculate, hardly used. Swap for Hague Linker in same condition or sell for £200 ono. Tel: (081-845) 9686 evening after 6pm. (Ruislip).

BOND chunky knitting machine, hardly used. £70 ono. Tel: (0635) 44634 (Newbury).

BROTHER KH710 knitting machine. Knits fair isle, tuck, lace and weaving. Lace carriage included. Suit beginner. Good condition, £120. Tel: 640740 (Worcester).

BROTHER 830 punchcard. Little used, £130. Lace carriage, £30. Brother 585, push button and ribber, £90. Knitradar for 585, £30. Simpleframe 96, £25. Tel: 444406 (Coventry).

BROTHER 881 and table, good condition, £250. Tel: (0256) 702441 (Odiham, Hants).

BOND classic plus extension. Row counter, video and books, £65. As new. Tel: (0322) 521971 (Bexley).

KNITMASTER 326 punchcard machine with Knitradar. Punchcards and instruction books, £100. Tel: (0663) 747051 (New Mills, near Stockport).

BROTHER 950i Electronic, 850 ribber, with table, transfer carriage, single and double colour changer, immaculate condition, hardly used, genuine reason for sale, £750. Tel: (0302) 730752 (Doncaster).

TOYOTA 950 with punchcards and D-Knitter, £195. Knit-tracer £50. Ribber £150. Table £10. Or £385 the lot. Tel: (0435) 830484 (E. Sussex).

KNITMASTER 155 punchcard chunky machine with ribber. Knitradar, intarsia carriage, extra BTA and table. All instruction books, as new, £450 ono. Tel: (0964) 542675 (Hornsea, Humberside).

SINGER Designer II with knitting table, patterns, instruction book, etc. £50 for quick sale. Tel: (0205) 722981.

BROTHER Electronic knitting machine. Brother 840 punchcard knitting machine. Brother KR850 ribber, double and single bed colour changers, transfer carriages, many other accessories. Also Bellinker Linker. Must sell. Tapes. Tel: 864934 (Portsmouth).

TOYOTA 858 punchcard knitting machine with lace carriage, punchcards and tuition books, good condition, hardly used, £130 ono. Tel: (0332) 676547 (Derby).

KNITMASTER 360, £200. SRP 50 ribber, £90. Lace carriage, £80. All above complete with table, £350. Tel: 341582 (Wolverhampton).

ANGORA yarn. Reasonable price from farm

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colour swatch, £1. Lovely range colours. £1 refund on order. Also rabbits, and fibre for spinning. Tel: (0328) 710363 (Fakenham).

TILT and turn stand for knitting machine and ribber, £15. Tel: (0582) 664869 (Dunstable).

TOYOTO 901 kitting machine with lace carriage and power knit motor. As new. Worth £1,200. Will sell £650 ono. Tel: (0294) 58153.

BROTHER 710 with lace carriage, etc. As new, £100. Bond Classic with extension kit and video, all boxed, never used, £70. Tel: (0202) 393408 (Bournemouth).

TOYOTA 858 with ribber, lace and intarsia carriages. Punch and punchcards, all accessories, weights, etc. Vgc, £350 ono. Phone between 4pm and 6pm. Tel: (0298) 77205 (Buxton).

BROTHER 950i Electronic with lace carriage, ribber, double bed colour changer, transfer carriage, manuals. Hardly used, less than 12 months old, £875. Tel: (0905) 56915 (Worcester).

SINGER 2310 (Freestyle) Electronic DB knitting machine, transfer and intarsia carriages, tapes, books, as new. Reason for sale, Buying system 9000, £395. Tel: (0905) 56915 (Worcester).

BROTHER chunky punchcard, plus intarsia, eighteen months old. Also books, yarn, etc, £280. Tel: (0822) 617188 (Devon).

TOYOTA KS787 24 st punchcard, lace carriage, weaving, tuck, slip, fair isle, zig zag, single auto motif, manual selection buttons, extension rails, £150 inc delivery. Ex condition. Tel: (082623) 644 (Dundee).

BROTHER KH891. Punchcard, built-in Knitleader, ribber. KR850 table, wool-winder, linker, transfer carriage, steaming kit, punch, wool & patterns. All new. Price negotiable. Tel: (0817) 611516 (Crystal Palace).

BROTHER KH 881 Knitleader, lace carriage, punchcards, table punch and roll of blank card. Book's £200. Tel: 818072 (St Helens).

BROTHER Electric KH 950. Built-in patterns. Lace carriage, Mylar sheets, as new, £550 ono. Tel: (0492) 641436 (Llanrwst).

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OLD type cone winder, that winds yarn onto cardboard cones. (For use by a disabled lady). Please phone: Gwen Knight (0706) 815772 (Lancs).

BROTHER KH260 chunky punchcard and ribber or Knitmaster 155 + ribber with instructions. Tel: (05762) 3015 (Lockerbie).

RIBBING attachment for Singer KE2400 Memomatic knitting machine. Must be in good condition. Please ring with details: (0900) 604759 (Cumbria).

KNITTING machine table. Tel: (07687) 73060 (Keswick).

PASSAP Model Books Nos. 1 & 2. Tel: (0451) 20722 (Glos).

ANY books. Instructions on further use of a Singer Freestyle 4 (beside the basic manual), e.g. How to Do Jacquard, Fair Isle etc. Tel: (0568) 611663 (Leominster).

RIBBER for Knitmaster 155, garter bar for standard gauge machine, skein winder and elec-

WANTED

tric cone winder. Tel: Brooks (025 485) 3521 (Preston).

GRISWOLD or Foster circular knitting machine. Tel: (0246) 209538.

INSTRUCTION book for Orian knitting machine and ribber. Tel: (0375)850503 (East Tilbury).

WANTED. Hague or Mini- Math Linker. Urgently. Tel: (061-368) 0396 (Hyde Cheshire).

WANTED. "Knitting and Crochet for the Home" by Shelagh Hollingworth (Batsford). Tel: 0405-813120 (Thorne).

WANTED. Lace carriage for Jones Brother 836 and Linker and garter carriage for same. Knitmaster 328 punch card, vgc, £95. Tel: (0489) 572400 (Southampton).

BROTHER garter carriage KG88 Mk II with magnet pack in good condition and working order. Tel: (0332) 679717 (Derby).

WANTED PPD for Brother 950i. Tel: 824232 (Leeds).

WANTED ribber for Knitmaster 155 chunky punchcard will pay £100. Knitleader Brother KL116. Reasonable please, not too far away. Tel: (0252) 835293 (Surrey).

WANTED ribber SRP60N for zippy de-luxe machine. Good condition, reasonable price paid. Also LC2 lace carriage and YC6 colour changer. West Yorkshire area please. No car. Tel: 490971 (Mirfield).

WANTED Kathleen Kinder resource book pattern supplement. Also first and second resource books. Tel: 852452 (Invergordon).

WANTED urgently by machine knitting teacher. Susanna Lewis's publication "A machine knitter's guide to creating fabrics". Tel: (0254) 704785 (Darwen, Lancs).

WANTED. Embroidery machine, industrial preferred, especially Cornelly chain stitch type. Must be in good condition. Tel: Caroline (0895) 34927 (Uxbridge).

WANTED. Singer KE2500 Knitting machine for spares or repair. Anyone having this model machine broken condition. Please contact me for purchase of parts. (0900) 604759 (Cumbria)

SWAP

SINGER 2310 double bed, transfer carriage, tuition tapes for Bond Elite or Classic, must have ribber extension bed. Tel: (0533) 856041 (Leicester).

SINGER Futura electronic sewing machine in superb condition for any standard gauge electronic knitting machine with ribber in perfect working order. Tel: 081-764 8869 (Streatham).

SWAP Passap Duo 80, four colour changer, Deco books for Brother KR850 ribber and/or PPD110 plus cash required. Possible delivery or sell £550 ono. Tel: (0258) 880926 (Dorset).

WILL swap Brother 710 knitting machine lace tuck weave Fair Isle for Brother Asserys or good sewing machine. Can deliver. Tel: (0767) 40124 (Nr Bedford).

SWAP Singer 2331 Freestyle Electonic knitting system, boxed, unwanted gift, for Jones Brother Electronic 950 with ribber. Must be as new. Singer value £875. Tel: (0590) 645796 (Lymington).

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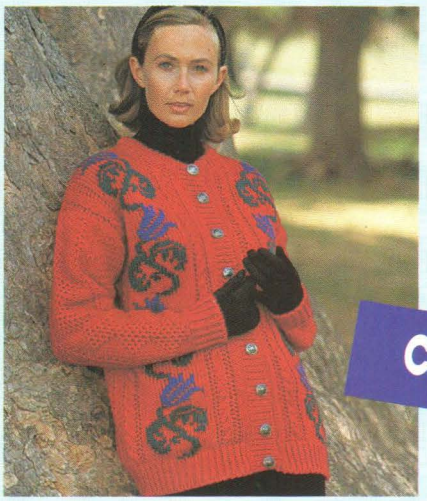

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